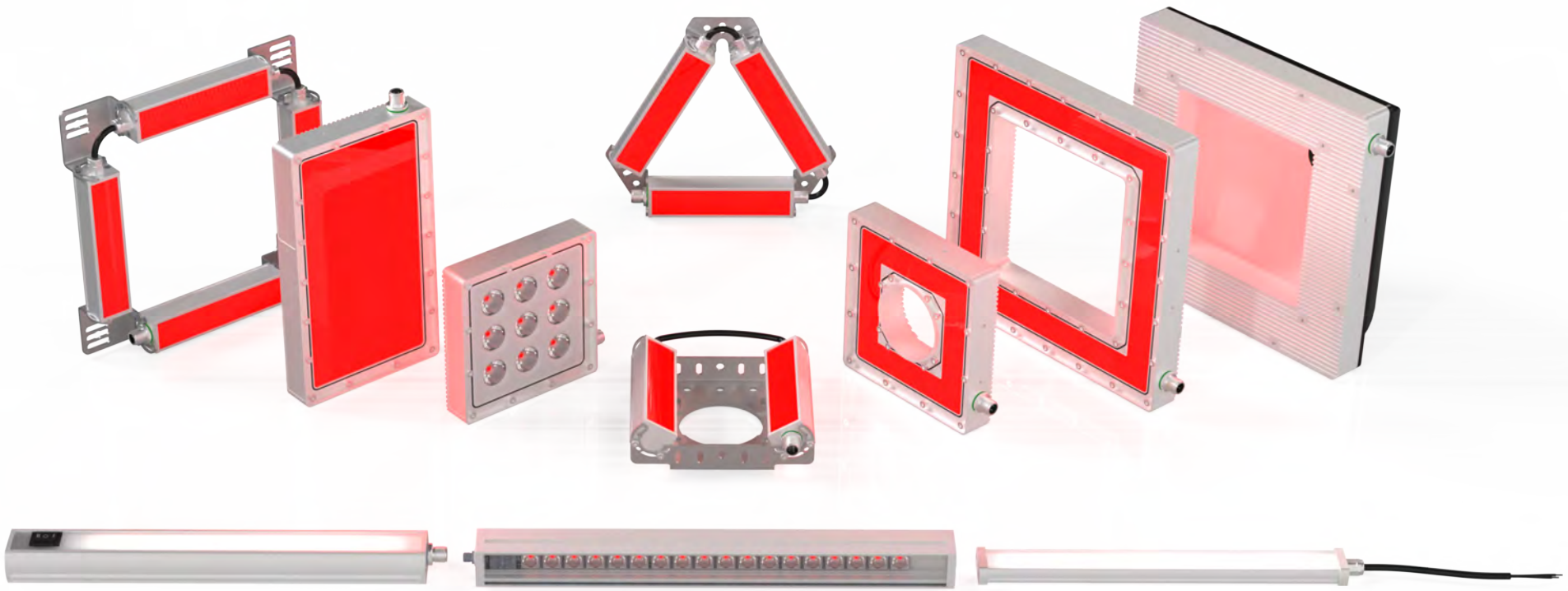
lumher



INNOVATIVE LIGHT

v26.10

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Lumher

The origin of Lumher dates back to 2011, when, due to the needs of several customers, we began to design our first lighting systems.

In 2016, with the experience accumulated over the years, we came up with the idea of creating a
industrial led luminaire brand completely designed and manufactured by us.

Thanks to a great team, enthusiasm and motivation to create this brand, this idea prospered and in 2018 we launched the first range of LED industrial luminaires on the market.
2018 we launched Lumher's first standard product range on the market: the "PD Series", focused on high efficiency and machine vision applications.

Lumher's goal is to meet the needs of lighting systems for manufacturers, engineering and machine vision applications, among others.

Technological innovation

Lumher has timeless designs that give a long life to each product it creates.

We take care of every detail of the design, reducing them to the minimum expression and looking for innovation, not only in the final result of the product but also in the way of manufacturing and assembling them. Likewise, our electronic and mechanical designs are versatile in order to solve and adapt to different applications.
and adapt to different applications.

All Lumher products are designed and manufactured in Spain, so we can guarantee a high quality product that meets the demanding requirements of the industry.

Lumher also offers customised designs: we were born this way and we believe in the added value of being able to create a unique solution that fits the requirements of our customers.

We at Lumher look forward to working with all our customers for many years to come, and to be able to help them realise better lighting solutions for all their projects.

Lumher, as a technological brand, lives in a continuous commitment to innovation, where direct contact with the best manufacturers makes it possible to transfer to our customers all the industrial innovations of the highest technology.

We have the Innovative SME distinction thanks to the R&D solutions we offer our customers.

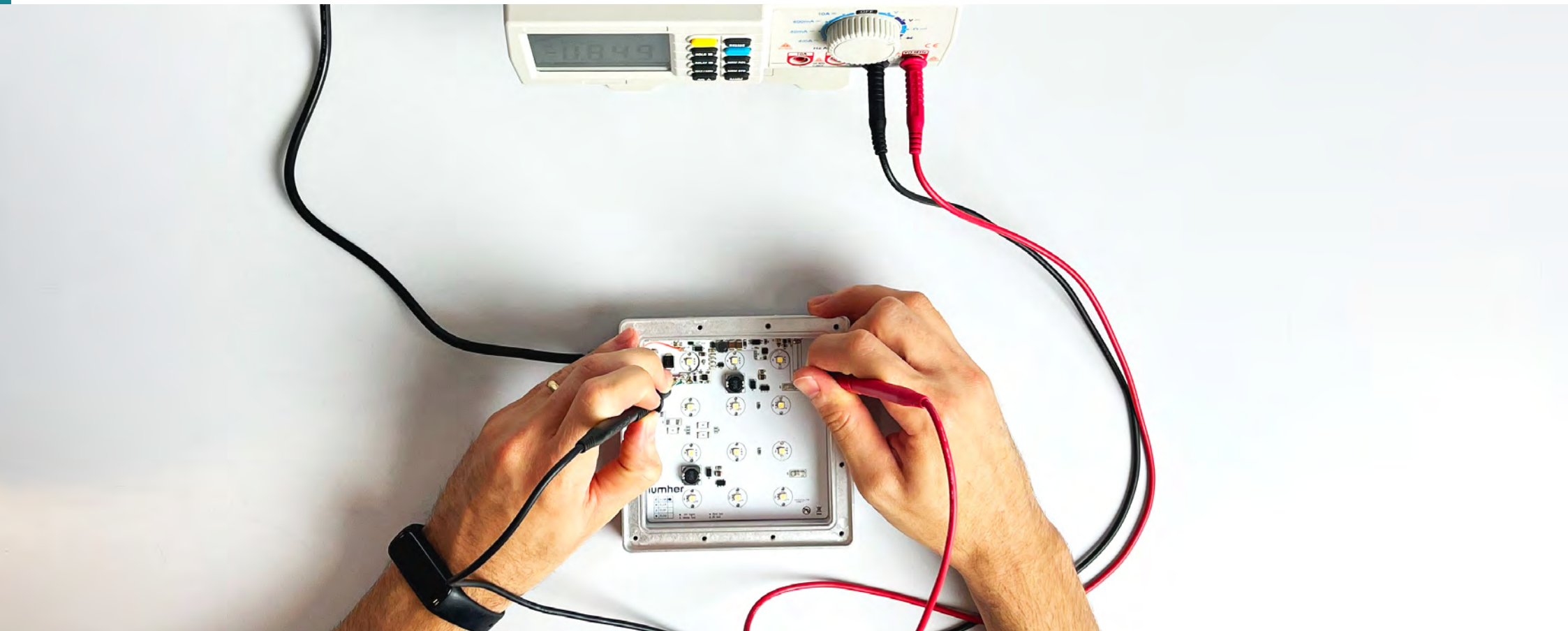


Our team

Lumher's success is undoubtedly due to the magnificent professionals and even better people who make up its team.

When high technical training is combined with passion for the job and the honesty and involvement of each of our professionals is added, we are able to provide the right solutions and the best service to our customers.

We currently have a commercial network of technical-sales representatives who directly cover the entire national territory.





Machine vision

At Lumher we know that machine vision does not exist without the right lighting. We are committed to excellence and constant innovation and we are proud to present you our wide range of Machine Vision products.

Machine vision has become an essential tool in fields such as industrial automation, robotics, medicine, security and many other sectors.

At Lumher, we remain at the forefront of this technological revolution.

We understand that each customer has unique needs. That's why we offer customised solutions that are tailored to your specific requirements, ensuring outstanding results.

Our team of experts is available to advise you and help you choose the most suitable machine vision solutions for your project.

Linear series
PD & PDX

The Lineal PD and PDX series (cascadable version) consists of an anodised aluminium profile with a cross-section of 31 x 25 mm, which can be manufactured in different lengths in 90 mm sections.

In addition, the P series offers a wide variety of anchoring options, including stainless steel and ABS models. These include fixed anchors with various installation positions and rotating anchors for greater flexibility.

The electronics are available in various colour options: white (5000K), red (625 nm), infrared (850 nm), ultraviolet (385 nm) and RGB. These electronics also feature a strobe function, allowing operation at up to 4 times the rated power for up to 10 ms.

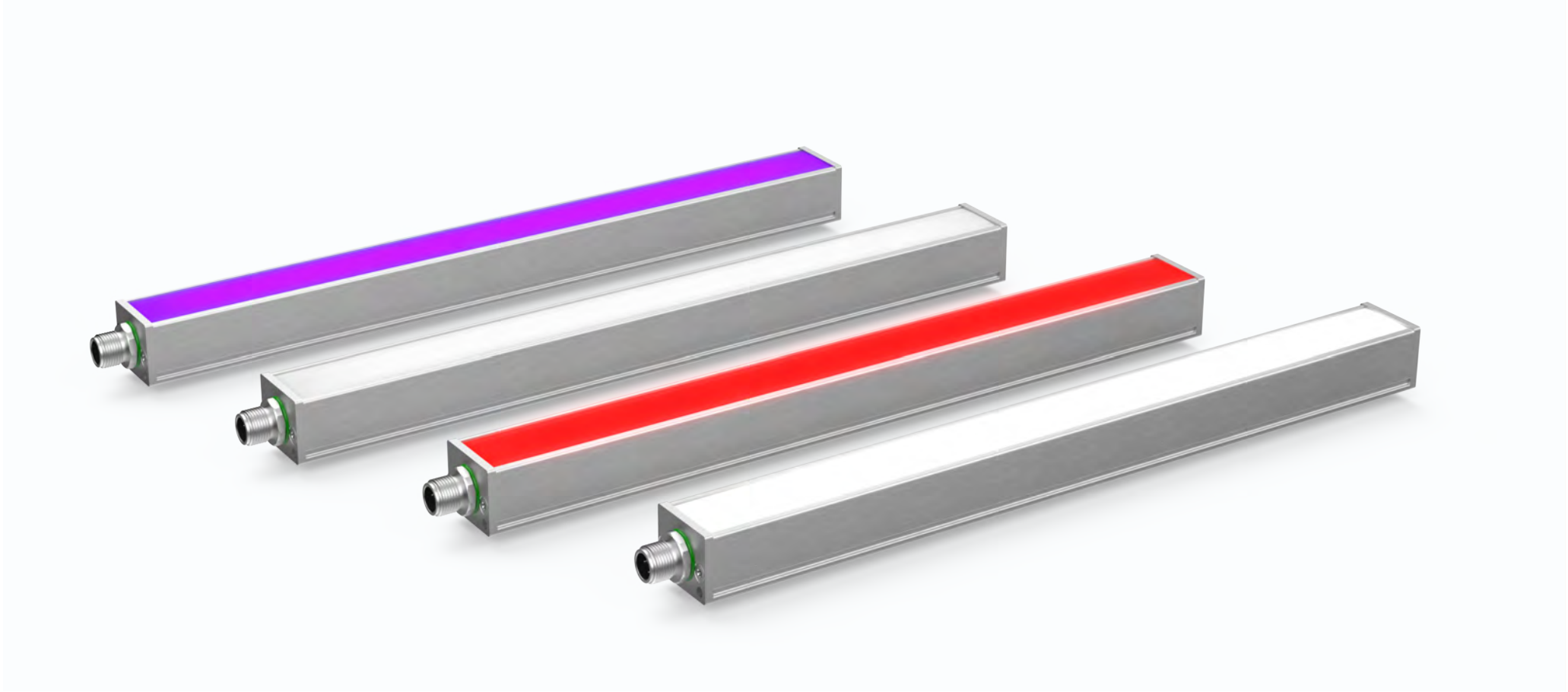
The Linear PD and PDX series is particularly suitable for applications requiring high light uniformity, ensuring accurate and consistent results in machine vision applications.

In addition, the series offers three lens options: a clear lens with an aperture of 55°, a semi-diffuse lens with an aperture of 60° and finally an ultra-diffuse lens with an aperture of 110°, making it possible to adapt to different lighting requirements.

For added versatility, it is possible to incorporate a polarising filter, and the series is available in three different levels of waterproofing: IP40, IP54 and IP65, with multiple inlet and outlet options to meet various installation and protection requirements.



Linear · PD Series



24 V
DC

MASTER
SLAVE

NOT
CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 4x

INTEGRATED
CONTROLLER

POLARIZED

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

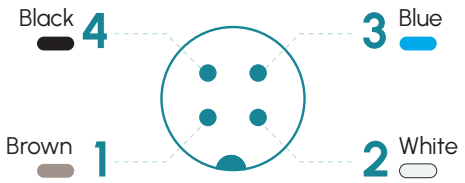
Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparent Semidiffuse Ultradiffuse	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

M12A input - Cable	Continuous	Master Continuous - Strobe	Slave Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP	Signal IN - a

M12A Male



Fixings

P01G1, P00R1, P00R2, P00R3, P00R4, M6D16

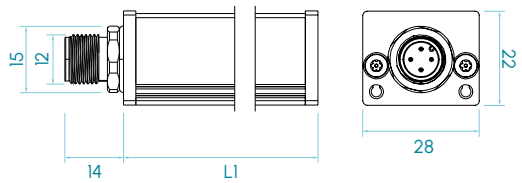
PD



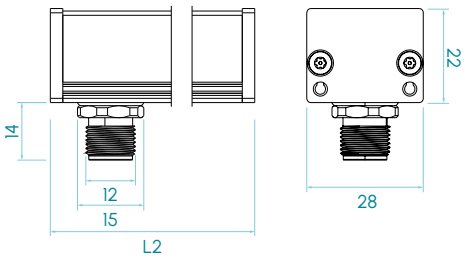
Measures

IP40

M12A axial version

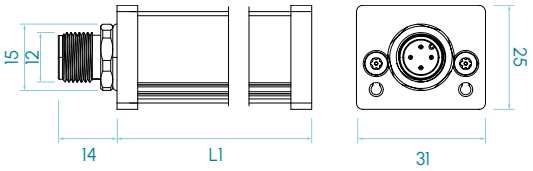


M12A radial version

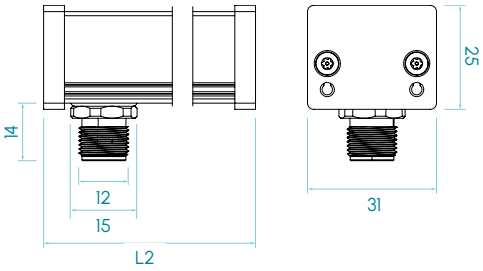


IP65

M12A axial version



M12A radial version



Measures in mm

PD

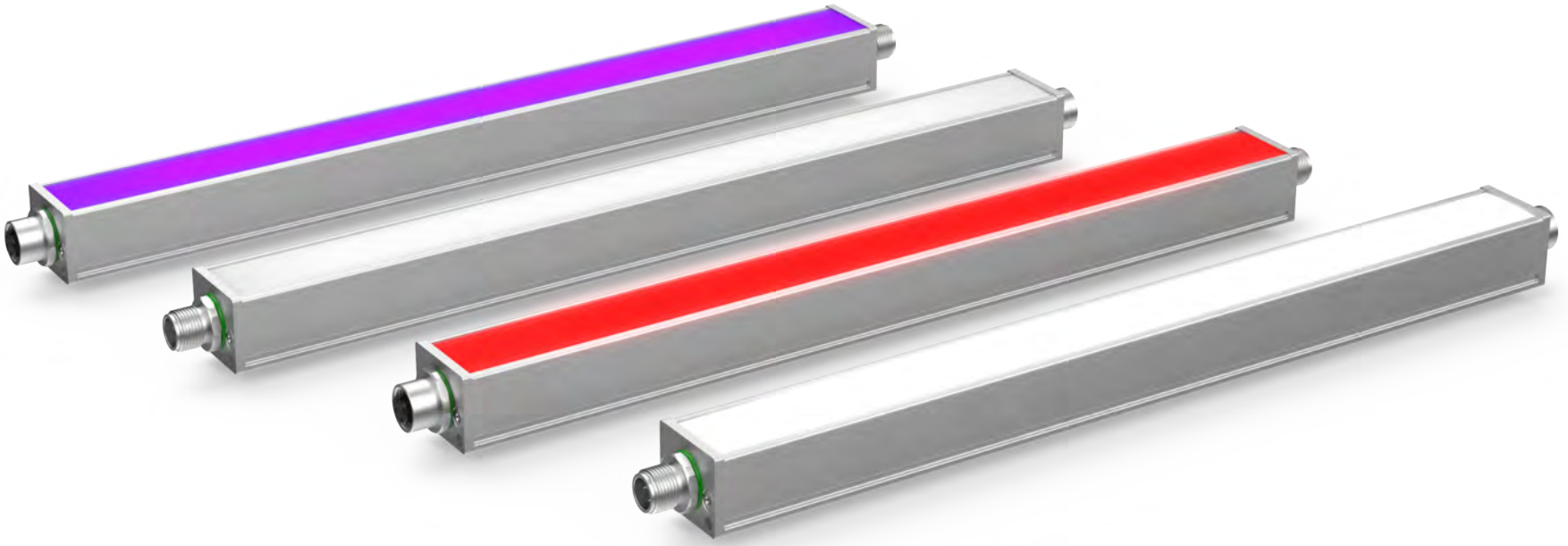
Selection guide

PD

- **Diffuser**
  - K - Axial Cable, 2 m
  - KL - Radial Cable, 2 m
  - Y - M12A axial male connector
  - YL - M12A radial male connector
  - PY - 10 cm axial cable with M12A male connector
  - RY - 10 cm radial cable with M12A male connector
  - C - Semidiffuse
  - U - Ultradiffuse
  - M - Semidiffuse Polarized (1) (3)
  - G - Ultradiffuse Polarized (1) (3)
  - T - Transparent (2)
- **IP Rating**
  - 3 - IP40
  - 5 - IP65
- **Wavelength**
  - D - White 5000K
  - R - Red 625nm
  - F - Infrared 850nm
  - U - Ultraviolet 365nm
- **Working mode**
  - P - Power
  - Z - Master Power - Strobe
  - X - Slave Power - Strobe
- **Length**
  - 1 - 15 - 90 mm steps

(1) Polarized Light versions are only available from PD01 to PD06, exclusively for D and R wavelengths.
(2) Transparent cover is only available for U wavelength.
(3) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

Linear · PDX Series



24 V
DC

MASTER
SLAVE

CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 4x

INTEGRATED
CONTROLLER

POLARIZED

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules (1)(2)	Power = 48	Strobe = 12
Wavelength	White Red Infrared Ultraviolet	5000K 625 nm 850 nm 365 nm
Beam angle	Transparent Semidiffuse Ultradiffuse	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10°C to +40°C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.
(2) The infrared model supports twice as many connectable modules.

Connection

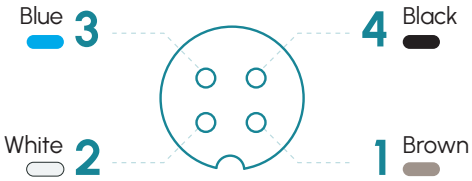
M12A input - Cable	Continuous	Master Continuous - Strobe	Slave Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP	Signal IN - a

M12A output	Continuous	Master Continuous - Strobe	Slave Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Signal OUT - a	Signal OUT - a

M12A Male



M12A Female



Fixings

P01G1, P00R1, P00R2, P00R3, P00R4, M6D16

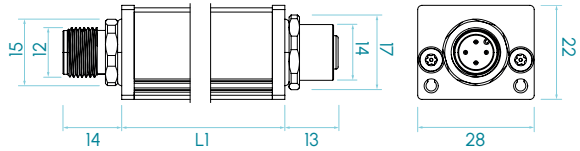
PDX



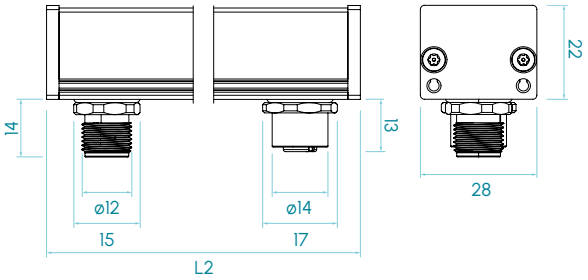
Measures

IP40

M12A axial version

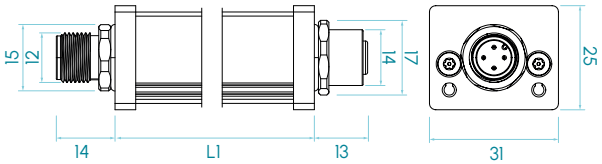


M12A radial version

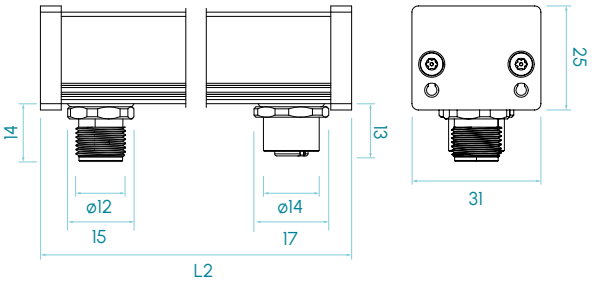


IP65

M12A axial version



M12A radial version



Measures in mm

PDX

(3) Polarized Light versions are only available from PD01 to PD06, exclusively for D and R wavelengths.
(4) Transparent cover is only available for U wavelength.
(5) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

Selection guide

PDX

Output
- Y - M12A axial female connector
- YL - M12A radial female connector
- PY - 10 cm axial cable with M12A female connector
- RY - 10 cm radial cable with M12A female connector

Input
- K - Axial Cable, 2 m
- KL - Radial Cable, 2 m
- Y - M12A axial male connector
- YL - M12A radial male connector
- PY - 10 cm axial cable with M12A male connector
- RY - 10 cm radial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized (3) (5)
- G - Ultradiffuse Polarized (3) (5)
- T - Transparent (4)

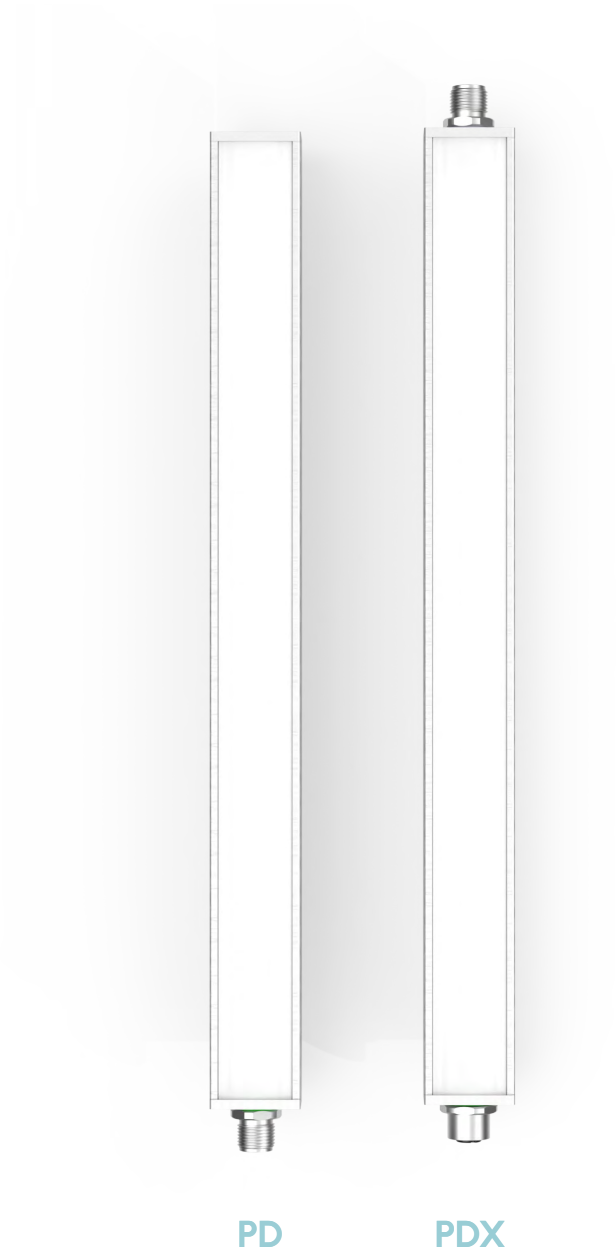
IP Rating
- 3 - IP40
- 5 - IP65

Wavelength
- D - White 5000K
- R - Red 625nm
- F - Infrared 850nm
- U - Ultraviolet 365nm

Working mode
- P - Power
- Z - Master Power - Strobe
- X - Slave Power - Strobe

Length
- 1 - 15 - 90 mm steps

Model PD / PDX · White 5000K



PD PDX

5000K
WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

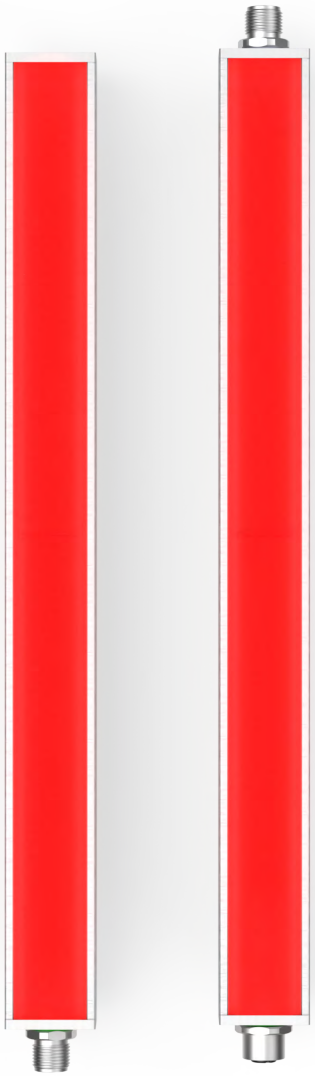
60.000h
LIFESPAN

Table of characteristics

	Length L1 [6] (mm)	Length L2 [6] (mm)	Weight (g)	Luminous flux [7] (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
PD/PDX 01...	120	138	97	304	1.216	1,9	7,6
PD/PDX 02...	210	228	145	608	2.432	3,8	15,2
PD/PDX 03...	300	318	193	912	3.648	5,7	22,8
PD/PDX 04...	390	408	241	1.216	4.864	7,6	30,4
PD/PDX 05...	480	498	289	1.520	6.080	9,5	38,0
PD/PDX 06...	570	588	337	1.824	7.296	11,4	45,6
PD/PDX 07...	660	678	385	2.128	8.512	13,3	53,2
PD/PDX 08...	750	768	433	2.432	9.728	15,2	60,8
PD/PDX 09...	840	858	481	2.736	10.944	17,1	68,4
PD/PDX 10...	930	948	529	3.040	12.160	19,0	76,0
PD/PDX 11...	1.020	1.038	577	3.344	13.376	20,9	83,6
PD/PDX 12...	1.110	1.128	625	3.648	14.592	22,8	91,2
PD/PDX 13...	1.200	1.218	673	3.952	-	24,7	-
PD/PDX 14...	1.290	1.308	721	4.256	-	26,6	-
PD/PDX 15...	1.380	1.398	769	4.560	-	28,5	-

(6) Versions with radial input and/or outlet will have length L2, the rest will be L1.
(7) The luminous flux (lm) is before diffuser.

Model PD / PDX · Red 625nm



PD PDX

625nm
ROJO

SEMIDIFUSO 60°

ULTRADIFUSO 110°

RIESGO FOTOBIOLÓGICO
RG1 - BAJO

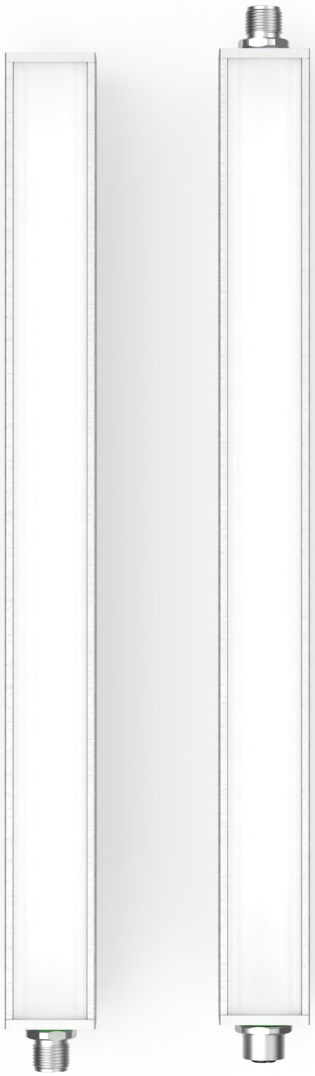
60.000h
VIDA ÚTIL

Table of characteristics

	Length L1 (6) (mm)	Length L2 (6) (mm)	Weight (g)	Luminous flux (7) (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
PD/PDX 01...	120	138	97	97	388	1,9	7,6
PD/PDX 02...	210	228	145	194	775	3,8	15,2
PD/PDX 03...	300	318	193	291	1.163	5,7	22,8
PD/PDX 04...	390	408	241	388	1.550	7,6	30,4
PD/PDX 05...	480	498	289	485	1.938	9,5	38,0
PD/PDX 06...	570	588	337	581	2.326	11,4	45,6
PD/PDX 07...	660	678	385	678	2.713	13,3	53,2
PD/PDX 08...	750	768	433	775	3.101	15,2	60,8
PD/PDX 09...	840	858	481	872	3.488	17,1	68,4
PD/PDX 10...	930	948	529	969	3.876	19,0	76,0
PD/PDX 11...	1.020	1.038	577	1.066	4.264	20,9	83,6
PD/PDX 12...	1.110	1.128	625	1.163	4.651	22,8	91,2
PD/PDX 13...	1.200	1.218	673	1.260	-	24,7	-
PD/PDX 14...	1.290	1.308	721	1.357	-	26,6	-
PD/PDX 15...	1.380	1.398	769	1.454	-	28,5	-

(6) Versions with radial input and/or outlet will have length L2, the rest will be L1.
(7) The luminous flux (lm) is before diffuser.

Model PD / PDX · Infrared 850nm



PD PDX

850nm
INFRARED

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

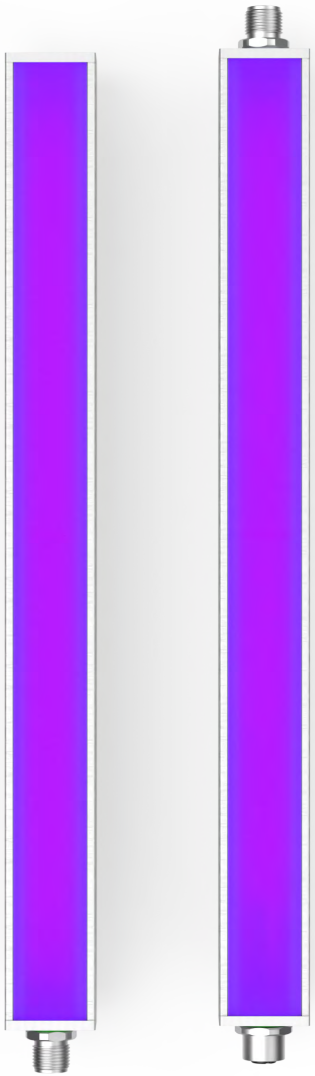
60.000h
LIFESPAN

Table of characteristics

	Length L1 (6) (mm)	Length L2 (6) (mm)	Weight (g)	Radiated power (7) (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
PD/PDX 01...	120	138	97	0,4	1,6	1,0	4,0
PD/PDX 02...	210	228	145	0,8	3,2	2,0	8,0
PD/PDX 03...	300	318	193	1,2	4,8	3,0	12,0
PD/PDX 04...	390	408	241	1,6	6,4	4,0	16,0
PD/PDX 05...	480	498	289	2,0	8,0	5,0	20,0
PD/PDX 06...	570	588	337	2,4	9,6	6,0	24,0
PD/PDX 07...	660	678	385	2,8	11,2	7,0	28,0
PD/PDX 08...	750	768	433	3,2	12,8	8,0	32,0
PD/PDX 09...	840	858	481	3,6	14,4	9,0	36,0
PD/PDX 10...	930	948	529	4,0	16,0	10,0	40,0
PD/PDX 11...	1.020	1.038	577	4,4	17,6	11,0	44,0
PD/PDX 12...	1.110	1.128	625	4,8	19,2	12,0	48,0
PD/PDX 13...	1.200	1.218	673	5,2	20,7	13,0	52,0
PD/PDX 14...	1.290	1.308	721	5,6	22,3	14,0	56,0
PD/PDX 15...	1.380	1.398	769	6,0	23,9	15,0	60,0

(6) Versions with radial input and/or outlet will have length L2, the rest will be L1.
(7) The radiated power (W) is before diffuser.

Model PD / PDX · Ultraviolet 365 nm



PD PDX

365nm
ULTRAVIOLET

TRANSPARENT
55°

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

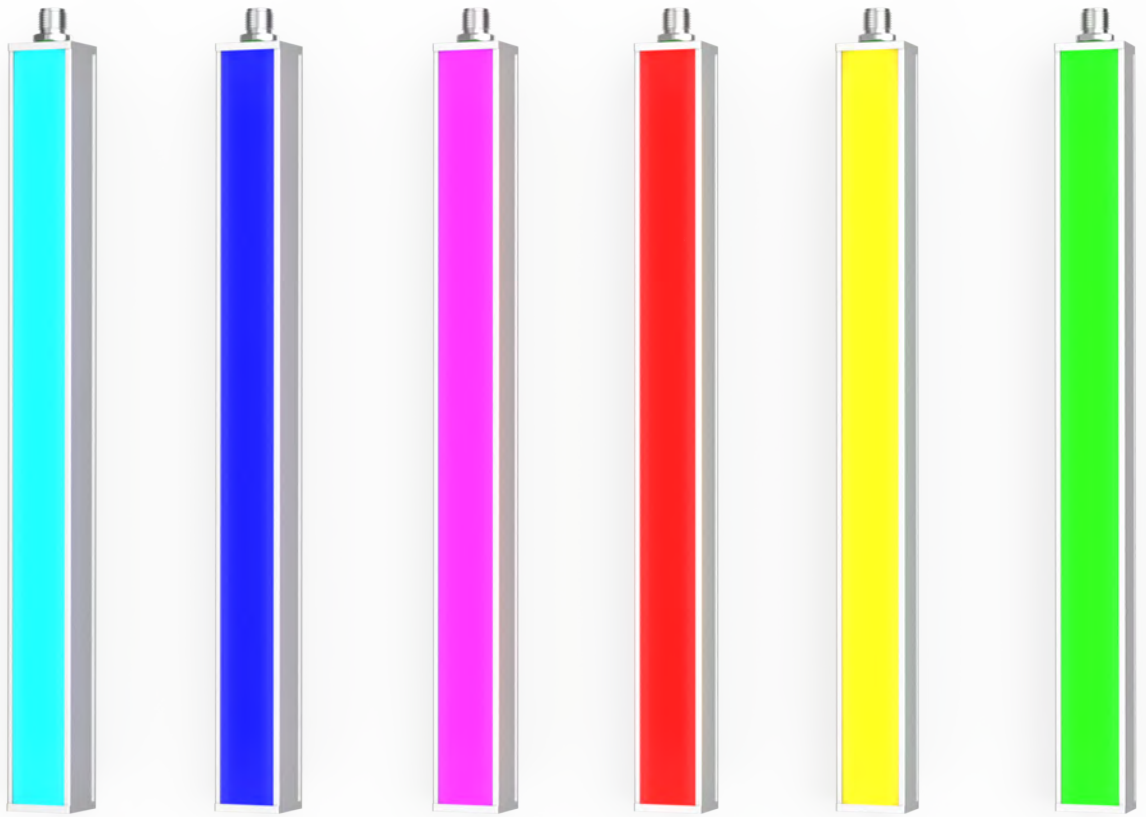
15.000h
LIFESPAN

Table of characteristics

	Length L1 [6] (mm)	Length L2 [6] (mm)	Weight (g)	Radiated power [7] (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
PD/PDX 01...	120	138	97	0,9	4	1,9	7,6
PD/PDX 02...	210	228	145	1,9	7,5	3,8	15,2
PD/PDX 03...	300	318	193	2,8	11,2	5,7	22,8
PD/PDX 04...	390	408	241	3,7	14,9	7,6	30,4
PD/PDX 05...	480	498	289	4,7	18,7	9,5	38,0
PD/PDX 06...	570	588	337	5,6	22,4	11,4	45,6
PD/PDX 07...	660	678	385	6,5	26,1	13,3	53,2
PD/PDX 08...	750	768	433	7,5	29,9	15,2	60,8
PD/PDX 09...	840	858	481	8,4	33,6	17,1	68,4
PD/PDX 10...	930	948	529	9,3	37,3	19,0	76,0
PD/PDX 11...	1.020	1.038	577	10,3	41,0	20,9	83,6
PD/PDX 12...	1.110	1.128	625	11,2	44,8	22,8	91,2
PD/PDX 13...	1.200	1.218	673	12,1	-	24,7	-
PD/PDX 14...	1.290	1.308	721	13,1	-	26,6	-
PD/PDX 15...	1.380	1.398	769	14,0	-	28,5	-

(6) Versions with radial input and/or outlet will have length L2, the rest will be L1.
(7) The radiated power (W) is before diffuser.

Linear · PD Series RGB



24 V DC

PWM
DIMABLE

NOT CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

POLARIZED

RGB

MACHINE VISION

SIGNALING

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

III
CLASS III

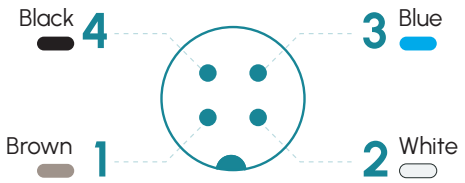
Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

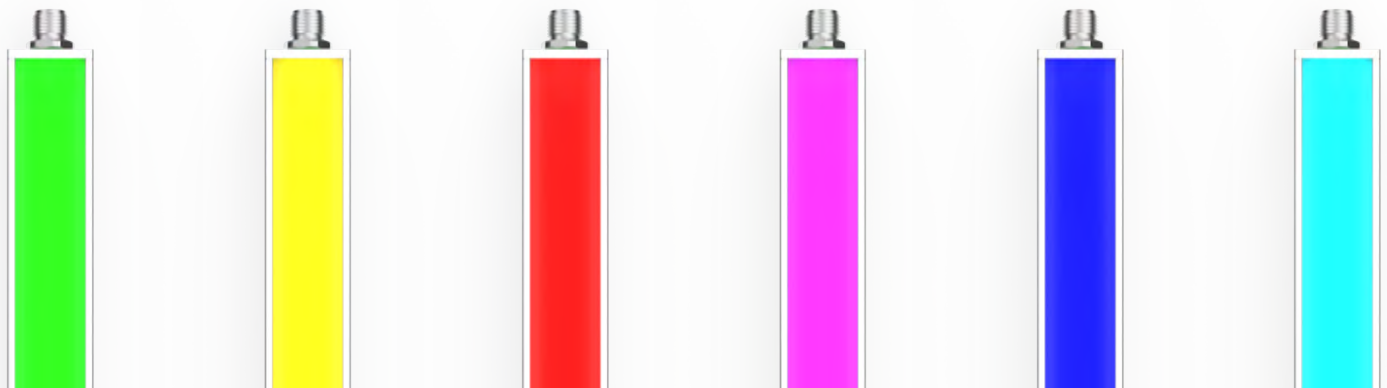
M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male



Fixings

P01G1, P00R1, P00R2, P00R3, P00R4, M6D16



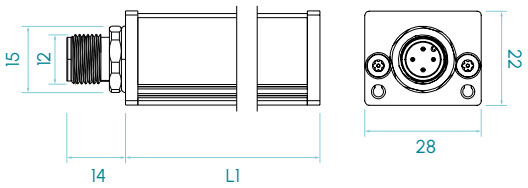
PD

RGB

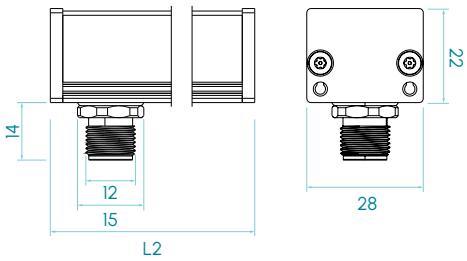
Measures

IP40

M12A axial version

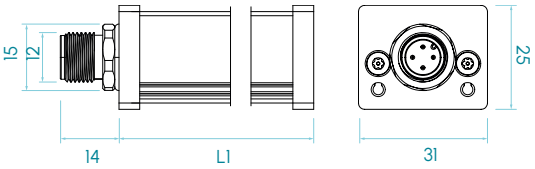


M12A radial version

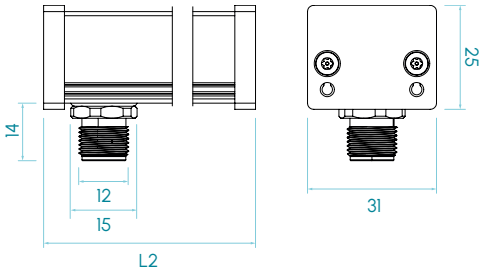


IP65

M12A axial version



M12A radial version



Measures in mm

RGB

Selection guide

PD P Q

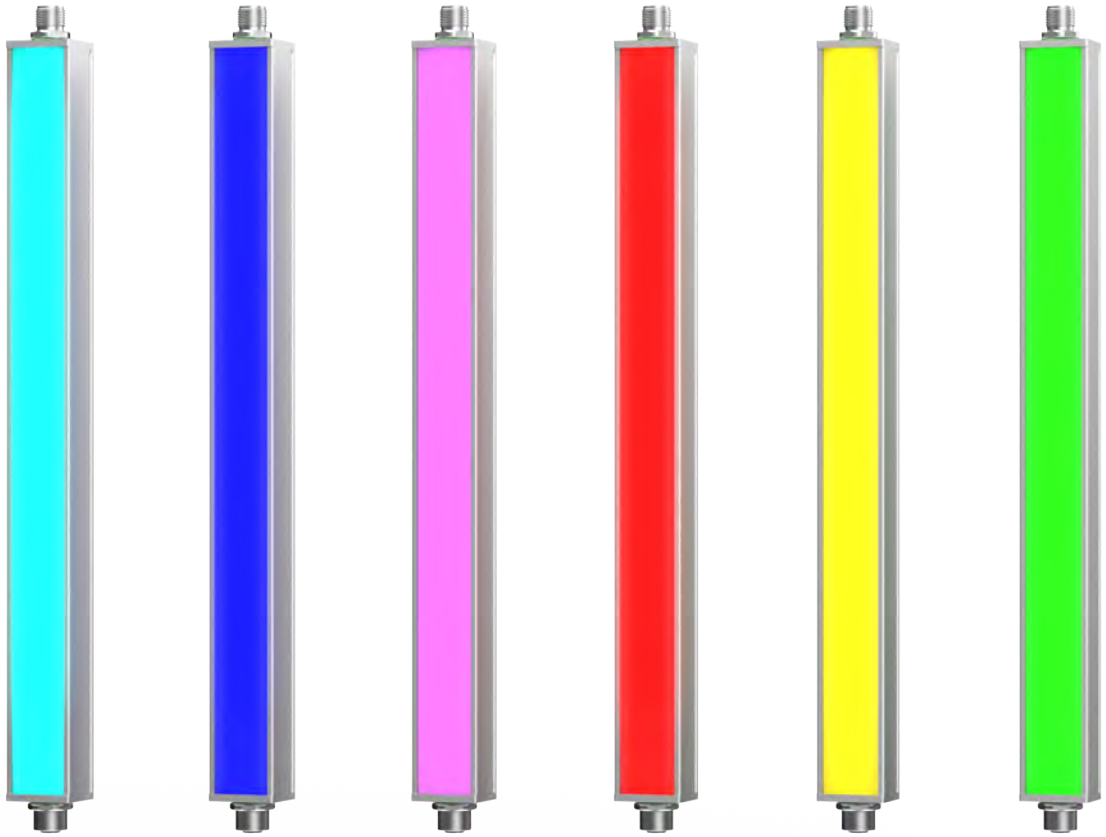
Input
- K - Axial Cable, 2 m
- KL - Radial Cable, 2 m
- Y - M12A axial male connector
- YL - M12A radial male connector
- PY - 10 cm axial cable with M12A male connector
- RY - 10 cm radial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized
- G - Ultradiffuse Polarized

IP Rating
- 3 - IP40
- 5 - IP65

Length
- 1 - 15 - 90 mm steps

Linear · PDX Series RGB



24 V DC

PWM
DIMABLE

CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

POLARIZED

RGB

MACHINE VISION

SIGNALING

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

III
CLASS III

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	44 modules	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.

Connection

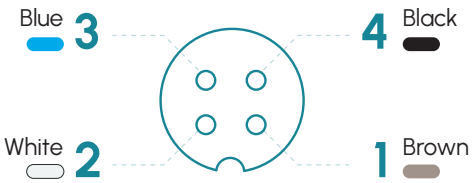
M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

Output M12A - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male

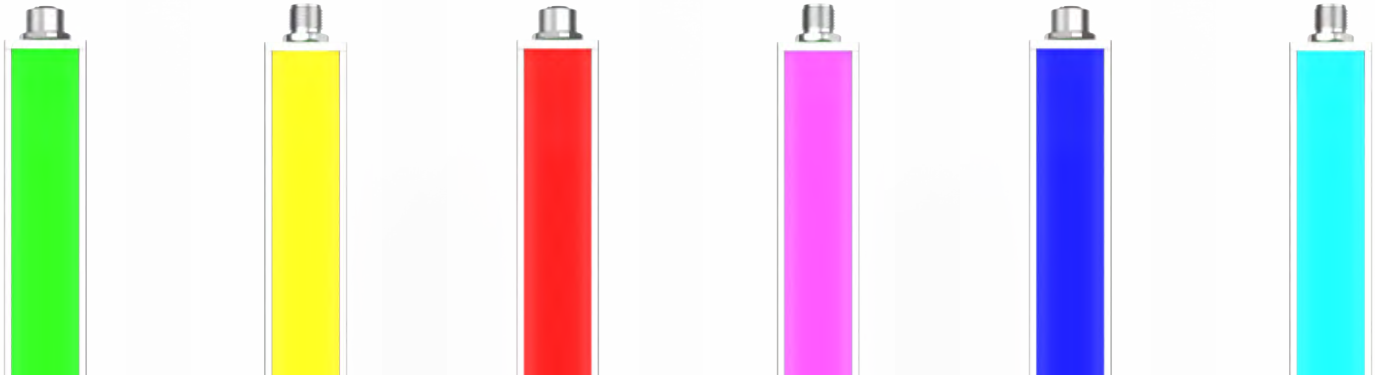


M12A Female



Fixings

P01G1, P00R1, P00R2, P00R3, P00R4, M6D16



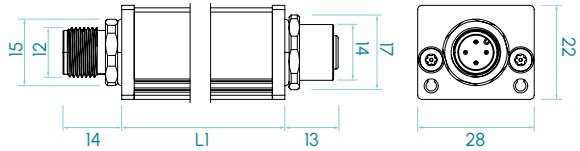
PDX

RGB

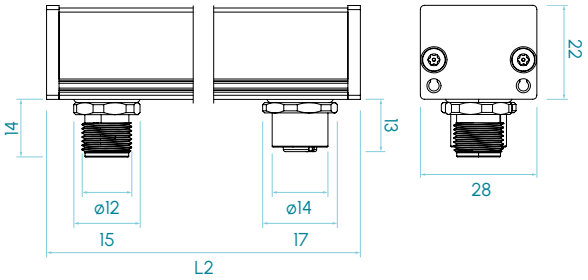
Measures

IP40

M12A axial version

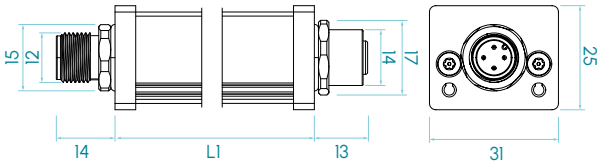


M12A radial version

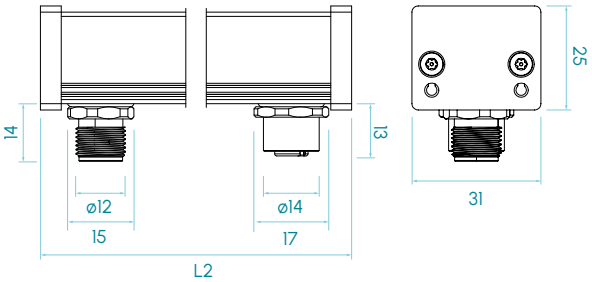


IP65

M12A axial version



M12A radial version



Measures in mm

RGB

Selection guide

PDX P Q

Output

- Y - M12A axial female connector
- YL - M12A radial female connector
- PY - 10 cm axial cable with M12A female connector
- RY - 10 cm radial cable with M12A female connector

Input

- K - Axial Cable, 2 m
- KL - Radial Cable, 2 m
- Y - M12A axial male connector
- YL - M12A radial male connector
- PY - 10 cm axial cable with M12A male connector
- RY - 10 cm radial cable with M12A male connector

Diffuser

- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized
- G - Ultradiffuse Polarized

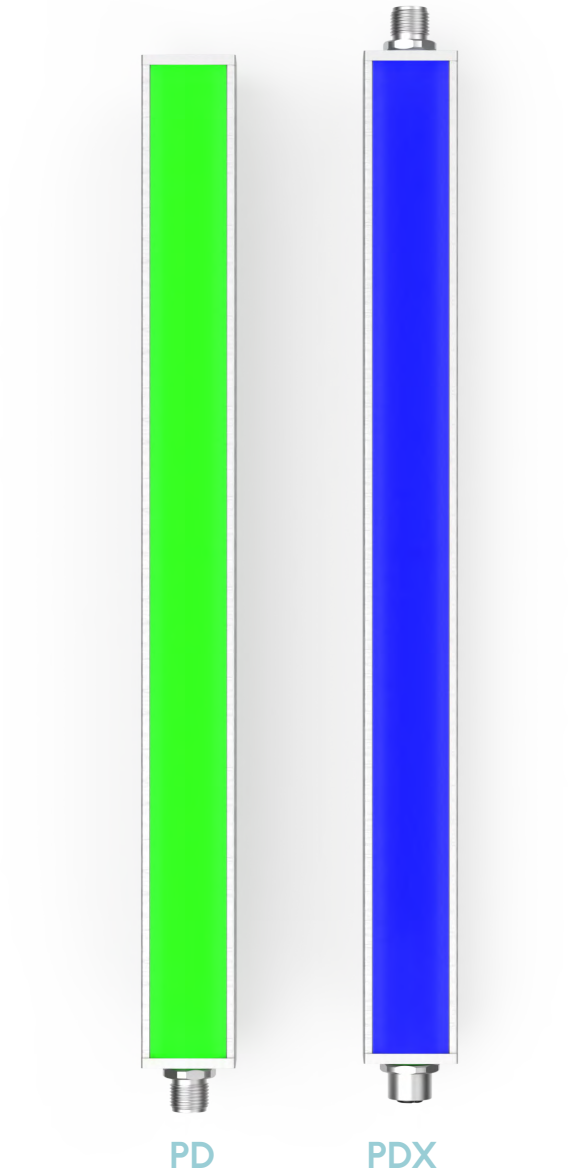
IP Rating

- 3 - IP40
- 5 - IP65

Length

- 1 - 15 - 90 mm steps

Model RGB · PD / PDX



RGB

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 (2) (mm)	Length L2 (2) (mm)	Weight (g)	Luminous flux (3) (lm) R	G	B	Power consumed (W)
PD/PDX 01...	120	138	97	10	26	7	1,8
PD/PDX 02...	210	228	145	19	52	14	3,6
PD/PDX 03...	300	318	193	29	77	22	5,4
PD/PDX 04...	390	408	241	38	103	29	7,2
PD/PDX 05...	480	498	289	48	129	36	9,0
PD/PDX 06...	570	588	337	58	155	43	10,8
PD/PDX 07...	660	678	385	67	181	50	12,6
PD/PDX 08...	750	768	433	77	206	58	14,4
PD/PDX 09...	840	858	481	86	232	65	16,2
PD/PDX 10...	930	948	529	96	258	72	18,0
PD/PDX 11...	1.020	1.038	577	106	284	79	19,8
PD/PDX 12...	1.110	1.128	625	115	310	86	21,6
PD/PDX 13...	1.200	1.218	673	125	335	94	23,4
PD/PDX 14...	1.290	1.308	721	134	361	101	25,2
PD/PDX 15...	1.380	1.398	769	144	387	108	27,0

(2) The versions with radial input and/or output will have as length L2, the rest will be L1.
(3) Luminous flux (lm) is before diffuser.

Linear Series
FD & FDX

The Linear FD and FDX series (cascadable version) has a larger dissipation surface, the FD and FDX series operates at twice the power of the PD and PDX series.

The F series has a variety of mounting options, both stainless steel and ABS, fixed and rotating mountings.

It is available in several colour options: white (5000K), red (625 nm), infrared (850 nm), ultraviolet (385 nm). These electronics also feature a strobe function, allowing operation at up to 4 times the rated power for up to 10 ms.

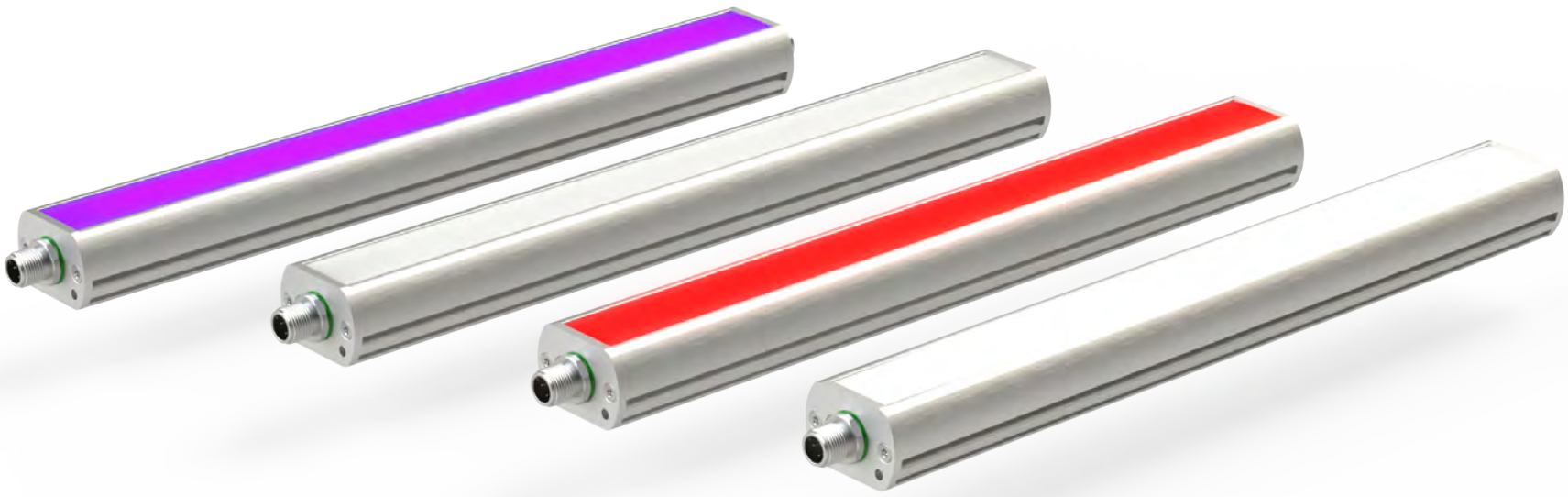
The Linear FD and FDX series is particularly suitable for applications requiring high light uniformity, ensuring accurate and consistent results in machine vision applications.

In addition, the series offers two lens options: a semi-diffuse lens with an aperture of 60° and an ultra-diffuse lens with an aperture of 110°, allowing it to adapt to different illumination needs.

For added versatility, a polarising filter can be incorporated, and the series is available in three different levels of waterproofing: IP40, IP54 and IP65, with multiple inlet and outlet options to meet various installation and protection requirements.



Linear · FD Series



24 V
DC

MASTER
SLAVE

NOT
CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 2x

INTEGRATED
CONTROLLER

POLARIZED

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparente Semidifuso Ultradifuso	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

M12A input - Cable	Continuous	Master Continuous - Strobe	Slave Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP	Signal IN - a

M12A Male



Fixings

F01G1, F00R1, M6D16

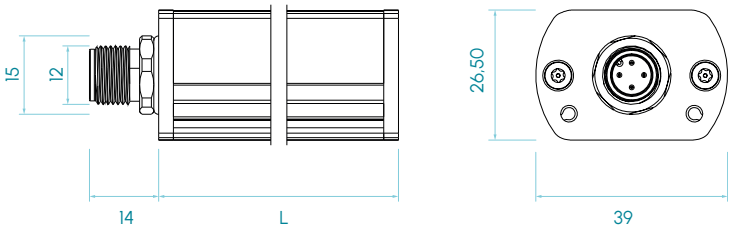
FD



Measures

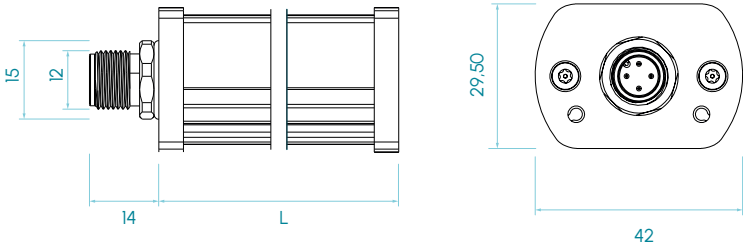
IP40

M12A axial version



IP65

M12A axial version



Measures in mm

FD

Selection guide

FD

Input
- K - Axial Cable, 2 m
- Y - M12A axial male connector
- PY - 10 cm axial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized (1) (3)
- G - Ultradiffuse Polarized (1) (3)
- T - Transparent (2)

IP Rating
- 3 - IP40
- 5 - IP65

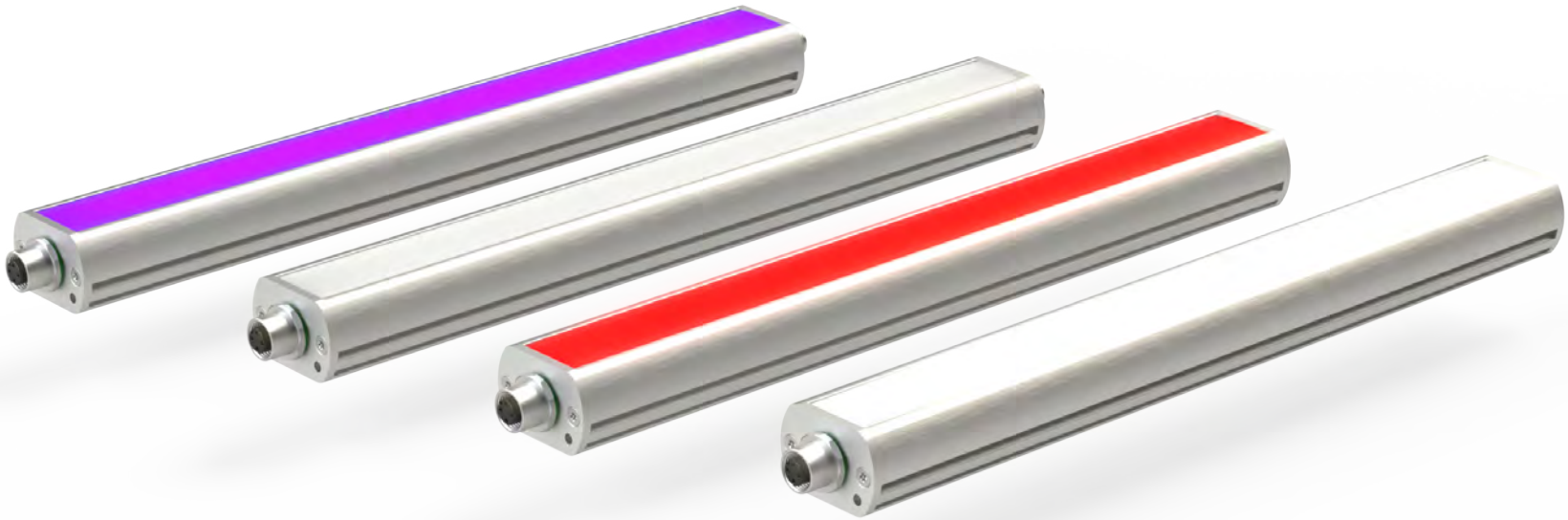
Wavelength
- D - White 5000K
- R - Red 625nm
- F - Infrared 850nm
- U - Ultraviolet 365nm

Working mode
- P - Continuous
- Z - Master Cont. - Strobe
- X - Slave Cont. - Strobe

Length
- 1 - 15 - 90 mm steps

(1) Polarized Light versions are only available from PD01 to PD06, exclusively for D and R wavelengths.
(2) Transparent cover is only available for U wavelength.
(4) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

Linear · FDX Series



24 V
DC

MASTER
SLAVE

CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 2x

INTEGRATED
CONTROLLER

POLARIZED

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	Power = 24	Strobe = 12
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10°C to +40°C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.
(2) The infrared model supports twice as many connectable modules.

Connection

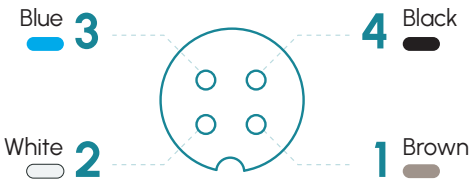
M12A input - Cable	Continuous	Master Continuous - Strobe	Slave Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP	Signal IN - a

M12A output	Continuous	Master Continuous - Strobe	Slave Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Signal OUT - a	Signal OUT - a

M12A Male



M12A Female



Fixings

F01G1, F00R1, M6D16

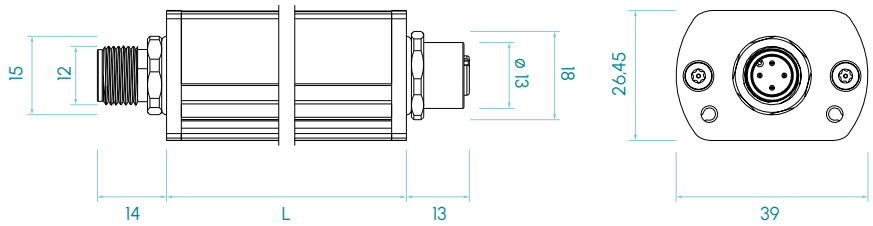
FDX



Measures

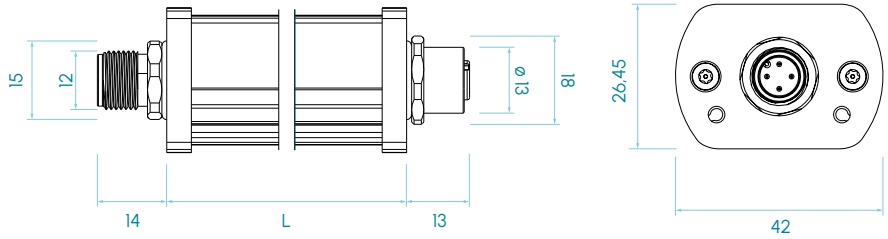
IP40

M12A axial version



IP65

M12A axial version



Measures in mm

FDX

Selection guide

FDX

Output
- Y - M12A axial female connector
- PY - 10 cm axial cable with M12A female connector

Input
- K - Axial Cable, 2 m
- Y - M12A axial male connector
- PY - 10 cm axial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized (3) (5)
- G - Ultradiffuse Polarized (3) (5)
- T - Transparent (4)

IP Rating
- 3 - IP40
- 5 - IP65

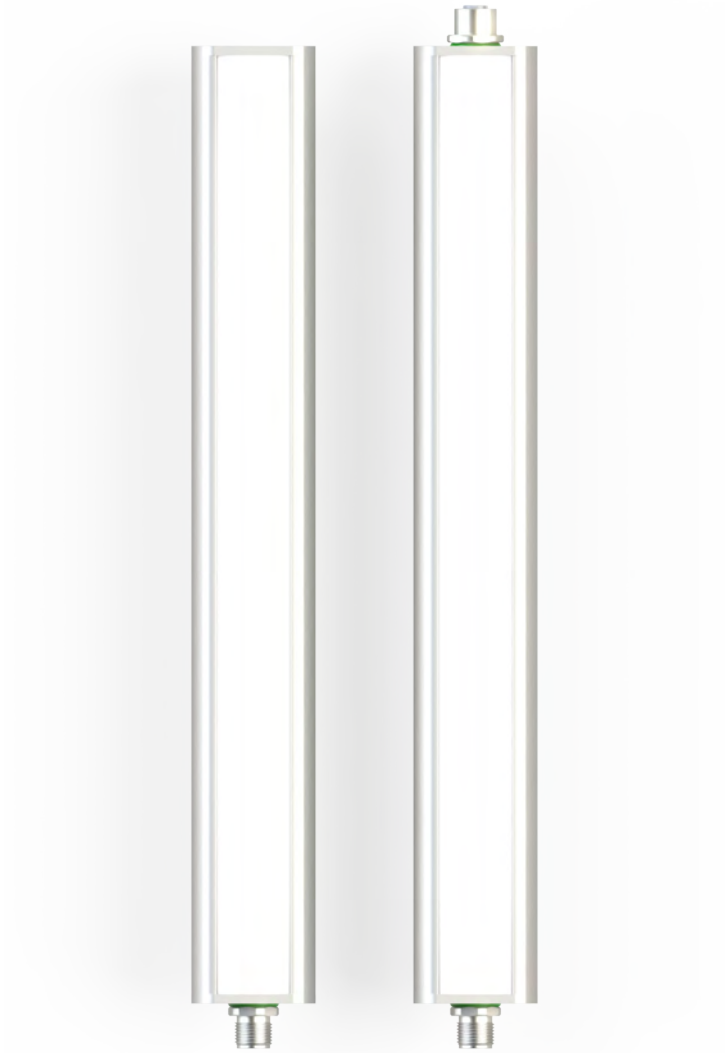
Wavelength
- D - White 5000K
- R - Red 625nm
- F - Infrared 850nm
- U - Ultraviolet 365nm

Working mode
- P - Continuous
- Z - Master Continuous - Strobe
- X - Slave Continuous - Strobe

Length
- 1 - 15 - 90 mm steps

(3) Polarized Light versions are only available from PD01 to PD06, exclusively for D and R wavelengths.
(4) Transparent cover is only available for U wavelength.
(5) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

Model FD / FDX · White 5000K



FD FDX

5000K
WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

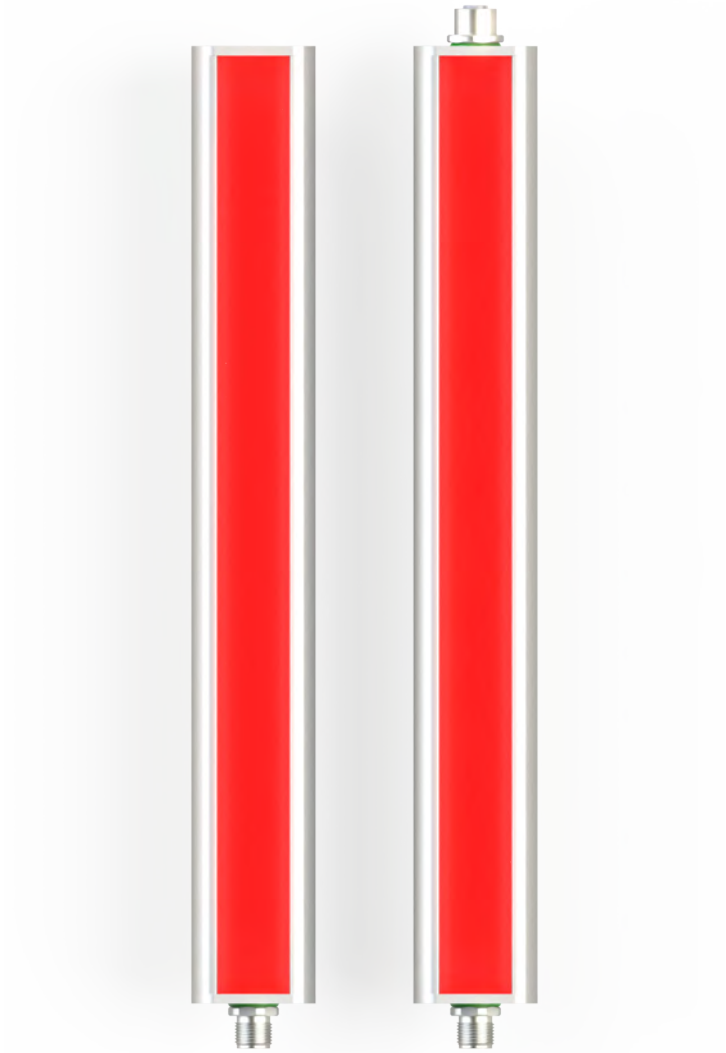
60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Luminous flux [6] (lm)		Power consumed (W)	
			CONT.	STROBE	CONT.	STROBE
FD/FDX 01...	120	256	608	1.216	3,8	7,6
FD/FDX 02...	210	448	1.216	2.432	7,6	15,2
FD/FDX 03...	300	640	1.824	3.648	11,4	22,8
FD/FDX 04...	390	832	2.432	4.864	15,2	30,4
FD/FDX 05...	480	1.024	3.040	6.080	19,0	38,0
FD/FDX 06...	570	1.216	3.648	7.296	22,8	45,6
FD/FDX 07...	660	1.408	4.256	8.512	26,6	53,2
FD/FDX 08...	750	1.600	4.864	9.728	30,4	60,8
FD/FDX 09...	840	1.792	5.472	10.944	34,2	68,4
FD/FDX 10...	930	1.984	6.080	12.160	38,0	76,0
FD/FDX 11...	1.020	2.176	6.688	13.376	41,8	83,6
FD/FDX 12...	1.110	2.368	7.296	14.592	45,6	91,2
FD/FDX 13...	1.200	2.560	7.904	-	49,4	-
FD/FDX 14...	1.290	2.752	8.512	-	53,2	-
FD/FDX 15...	1.380	2.944	9.120	-	57,0	-

(6) Luminous flux (lm) is before diffuser.

Model FD / FDX · Red 625 nm



FD FDX

625nm
RED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

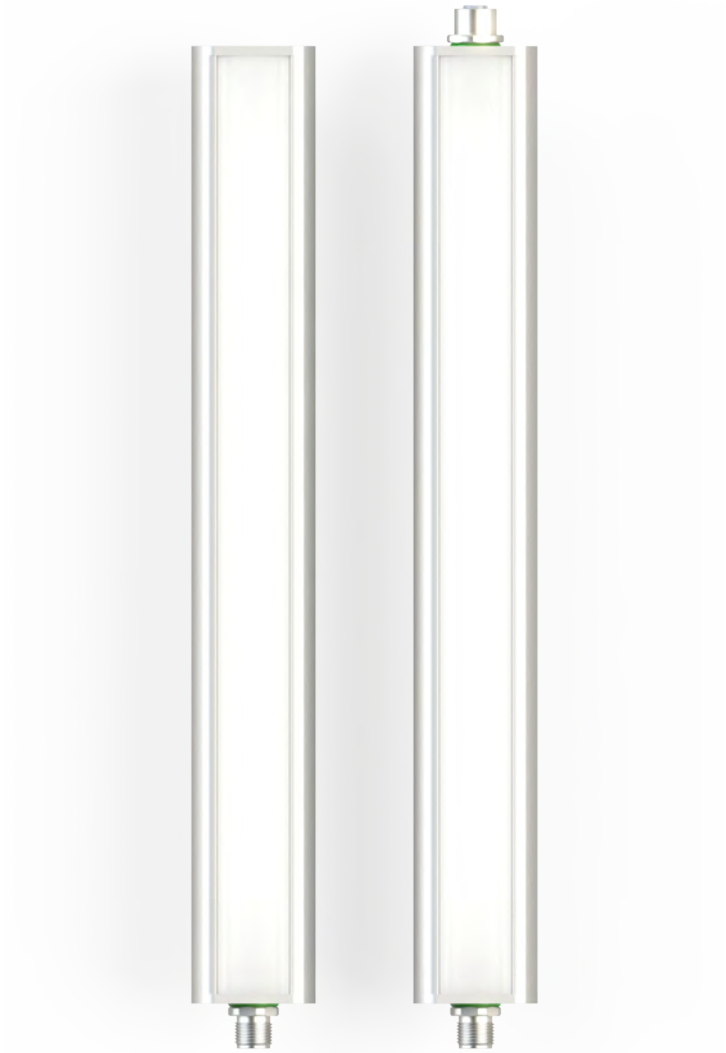
60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Luminous flux [6] (lm) CONT.	Luminous flux [6] (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
FD/FDX 01...	120	256	194	388	3,8	7,6
FD/FDX 02...	210	448	388	775	7,6	15,2
FD/FDX 03...	300	640	581	1.163	11,4	22,8
FD/FDX 04...	390	832	775	1.550	15,2	30,4
FD/FDX 05...	480	1.024	969	1.938	19,0	38,0
FD/FDX 06...	570	1.216	1.163	2.326	22,8	45,6
FD/FDX 07...	660	1.408	1.357	2.713	26,6	53,2
FD/FDX 08...	750	1.600	1.550	3.101	30,4	60,8
FD/FDX 09...	840	1.792	1.744	3.488	34,2	68,4
FD/FDX 10...	930	1.984	1.938	3.876	38,0	76,0
FD/FDX 11...	1.020	2.176	2.132	4.264	41,8	83,6
FD/FDX 12...	1.110	2.368	2.326	4.651	45,6	91,2
FD/FDX 13...	1.200	2.560	2.519	-	49,4	-
FD/FDX 14...	1.290	2.752	2.713	-	53,2	-
FD/FDX 15...	1.380	2.944	2.907	-	57,0	-

(6) Luminous flux (lm) is before diffuser.

Model FD / FDX · Infrared 850 nm



FD FDX

850nm
INFRARED

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

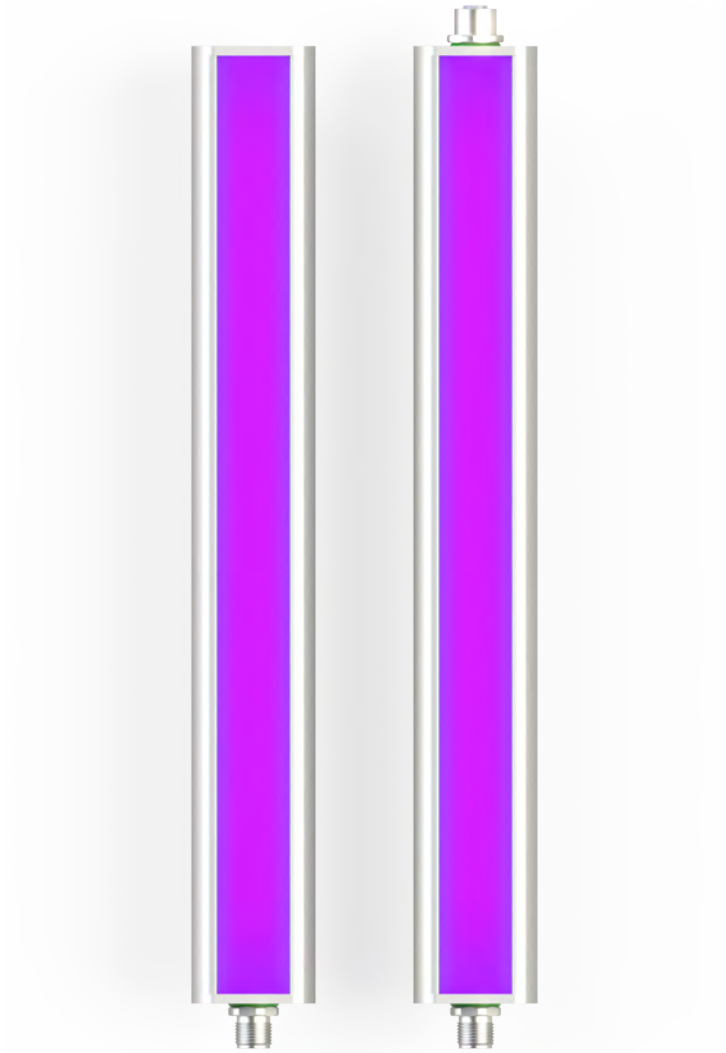
60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Radiated power [6] (W) CONT.	Radiated power [6] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
FD/FDX 01...	120	256	0,8	1,6	2,0	4,0
FD/FDX 02...	210	448	1,6	3,2	4,0	8,0
FD/FDX 03...	300	640	2,4	4,8	6,0	12,0
FD/FDX 04...	390	832	3,2	6,4	8,0	16,0
FD/FDX 05...	480	1.024	4,0	8,0	10,0	20,0
FD/FDX 06...	570	1.216	4,8	9,6	12,0	24,0
FD/FDX 07...	660	1.408	5,6	11,2	14,0	28,0
FD/FDX 08...	750	1.600	6,4	12,8	16,0	32,0
FD/FDX 09...	840	1.792	7,2	14,4	18,0	36,0
FD/FDX 10...	930	1.984	8,0	16,0	20,0	40,0
FD/FDX 11...	1.020	2.176	8,8	17,6	22,0	44,0
FD/FDX 12...	1.110	2.368	9,6	19,2	24,0	48,0
FD/FDX 13...	1.200	2.560	10,4	20,7	26,0	52,0
FD/FDX 14...	1.290	2.752	11,2	22,3	28,0	56,0
FD/FDX 15...	1.380	2.944	12,0	23,9	30,0	60,0

(6) The radiated power (W) is before diffuser.

Model FDX · Ultraviolet 365 nm



FD FDX

365nm
ULTRAVIOLET

TRANSPARENT
55°

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

15.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Radiated power [6] (W) CONT.	Radiated power [6] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
FD/FDX 01...	120	256	1,9	3,7	3,8	7,6
FD/FDX 02...	210	448	3,7	7,5	7,6	15,2
FD/FDX 03...	300	640	5,6	11,2	11,4	22,8
FD/FDX 04...	390	832	7,5	14,9	15,2	30,4
FD/FDX 05...	480	1.024	9,3	18,7	19,0	38,0
FD/FDX 06...	570	1.216	11,2	22,4	22,8	45,6
FD/FDX 07...	660	1.408	13,1	26,1	26,6	53,2
FD/FDX 08...	750	1.600	14,9	29,9	30,4	60,8
FD/FDX 09...	840	1.792	16,8	33,6	34,2	68,4
FD/FDX 10...	930	1.984	18,7	37,3	38,0	76,0
FD/FDX 11...	1.020	2.176	20,5	41,0	41,8	83,6
FD/FDX 12...	1.110	2.368	22,4	44,8	45,6	91,2
FD/FDX 13...	1.200	2.560	24,3	-	49,4	-
FD/FDX 14...	1.290	2.752	26,1	-	53,2	-
FD/FDX 15...	1.380	2.944	28,0	-	57,0	-

(6) The radiated power (W) is before diffuser.

Linear Series
GV

The GV range of lights has been designed for machine vision applications requiring high light output and precise illumination control. Its robust construction and advanced optics provide excellent versatility in demanding industrial environments. This series features beam angle options of 6°, 15° and 30°, allowing it to adapt to different working distances and fields of view, from focused illumination to wider coverage.

The built-in electronics include a strobe function, ideal for capturing moving objects without loss of sharpness. The lights also support PNP and NPN triggering, as well as 1–10 V analogue dimming, providing full control over light intensity. In the dimmable version, the light output can be adjusted in individual 150 mm segments via the MODBUS communication protocol. This enables the illumination to be customised along the entire length of the unit, thereby optimising uniformity.

This range of lights is available in four wavelengths / colour temperatures:

- White (5000 K)
- Red (620 nm)
- Infrared (850 nm)
- Ultraviolet (365 nm)

All components are housed in an IP65-rated enclosure, ensuring protection against dust and water jets and making the lights suitable for environments involving washdowns or airborne particles.

Combining high output, optical flexibility and robust construction, the GV series is the ideal solution for vision systems requiring performance, precision and durability under harsh industrial conditions.



Linear · GV Series



24 V
DC

CONTINUOUS
STROBE
DIMMABLE

150mm
INCREMENTAL

M12A
M12T
M12T+M12A

OPTICS

CONTINUOUS 1x
STROBE 2x

INTEGRATED
CONTROLLER

IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 250 ms
Max. working cycle	Continuous = 1	Strobe = 1/3
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 620 nm 850 nm 365 nm
Beam angle	Transparent Transparent (without lens) Semidiffuse	6° · 15° · 30° 66° 72°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Lenses material	Methacrylate	
Connection types	M12A, M12T, cable M12T with connector + M12A	
Standards	RoHs, CE	

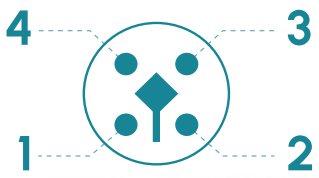
GV

Connection

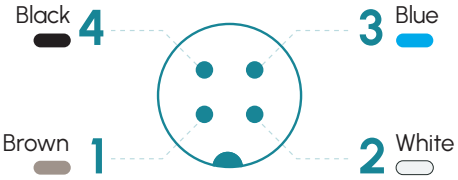
Input	Continuous	Continuous - Trigger	Continuous - Strobe
Pin 1	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2	Not connected	Trigger NPN	Trigger NPN
Pin 3	0 Vdc	0 Vdc	0 Vdc
Pin 4	Not connected	Trigger PNP	Trigger PNP

Input	Continuous - Strobe - Dimmable	
	M12T Input	M12A Input
Pin 1	+24 Vdc	A+
Pin 2	Trigger NPN	B-
Pin 3	0 Vdc	1-10V
Pin 4	Trigger PNP	GND

M12T Male

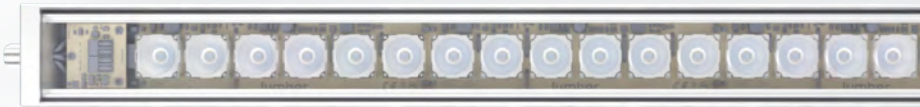


M12A Male



Fixings

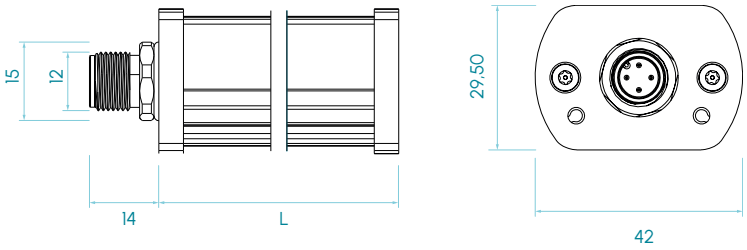
G00R1



Measures

IP65

M12A axial version



Measures in mm

GV

Selection guide

GV 5

Input
- Y - M12A connector
- T - M12T connector
- PTY - Cable with M12T connector + M12A (1)

Diffuser
- Q - Transparent 6°
- V - Transparent 15°
- S - Transparent 30°
- C - Semidiffuse
- T - Transparent without lens (1)

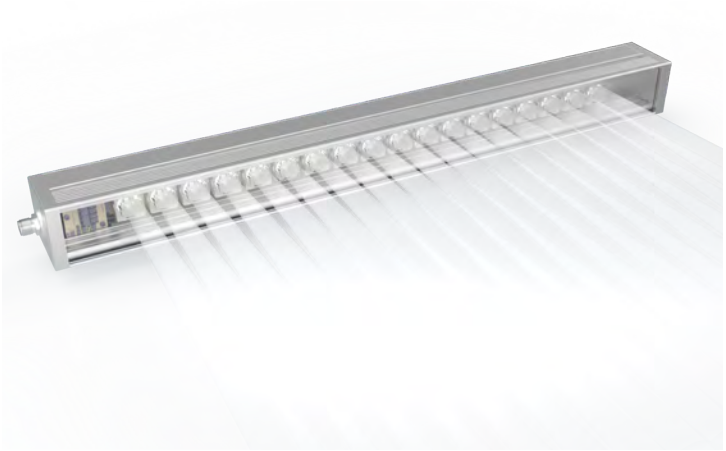
Wavelength
- D - White 5000K
- R - Red 620nm
- F - Infrared 850nm
- U - Ultraviolet 365nm

Working mode
- P - Continuous
- N - Continuous - Trigger
- Z - Continuous - Strobe
- W - Continuous - Strobe Dimmable

Length
- 1 - 9 - 150mm steps

(1) Transparent cover without lens is only available for U wavelength.

Model GV · White 5000K



5000K
WHITE

TRANSPARENT
6°, 15°, 30°

SEMIDIFFUSE

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

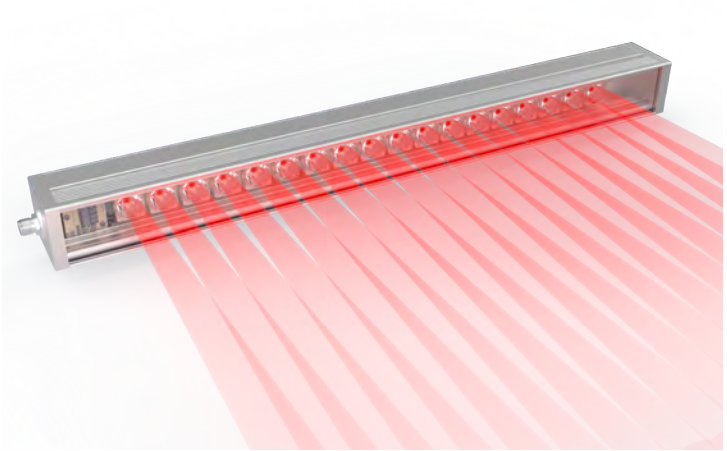
Table of characteristics

	Length L (mm)	Weight (g)	Luminous flux (2) (lm) CONT.	Luminous flux (2) (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
GV 01 ...	250	741	1.886	3.297	14,4	31,7
GV 02 ...	400	1.063	3.773	6.594	28,8	63,4
GV 03 ...	550	1.411	5.659	9.890	43,2	95,1
GV 04 ...	700	1.760	7.546	13.187	57,6	126,8
GV 05 ...	850	2.109	9.432	16.484	72	158,5
GV 06 ...	1.000	2.457	11.318	19.781	86,4	190,2
GV 07 ...	1.150	2.806	13.205	23.078	100,8	221,9
GV 08 ...	1.300	3.155	15.091	26.374	115,2	253,6
GV 09 ...	1.450	3.503	16.978	29.671	129,6	285,3

A	M12A
T	M12T

(2) The luminous flux (lm) is before the lenses.

Model GV · Red 620 nm



620nm
RED

TRANSPARENT
6°, 15°, 30°

SEMIDIFFUSE

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L (mm)	Weight (g)	Luminous flux (2) (lm) CONT.	Luminous flux (2) (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
GV 01 ...	250	741	661	1.157	11,8	26,9
GV 02 ...	400	1.063	1.322	2.313	23,6	53,8
GV 03 ...	550	1.411	1.982	3.470	35,4	80,7
GV 04 ...	700	1.760	2.643	4.627	47,2	107,6
GV 05 ...	850	2.109	3.304	5.784	59	134,5
GV 06 ...	1.000	2.457	3.965	6.940	70,8	161,4
GV 07 ...	1.150	2.806	4.626	8.097	82,6	188,3
GV 08 ...	1.300	3.155	5.286	9.254	94,4	215,2
GV 09 ...	1.450	3.503	5.947	10.410	106,2	242,1

A	M12A
T	M12T

(2) The luminous flux (lm) is before the lenses.

Model GV · Infrared 850 nm



850nm
INFRARED



TRANSPARENT
6°, 15°, 30°



SEMIDIFFUSE

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

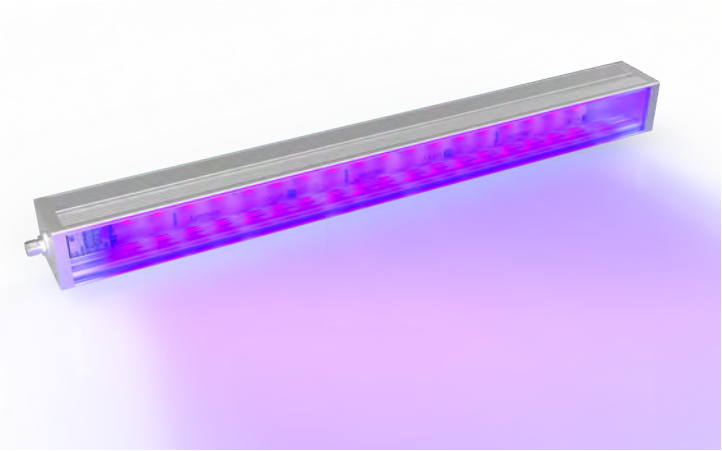
Table of characteristics

	Length L (mm)	Weight (g)	Radiated power [2] (mW) CONT.	Radiated power [2] (mW) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
GV 01 ...	250	741	5.401	10.786	8,4	19,4
GV 02 ...	400	1.063	10.802	21.573	16,8	38,8
GV 03 ...	550	1.411	16.204	32.359	25,2	58,2
GV 04 ...	700	1.760	21.605	43.146	33,6	77,6
GV 05 ...	850	2.109	27.006	53.932	42	97
GV 06 ...	1.000	2.457	32.407	64.718	50,4	116,4
GV 07 ...	1.150	2.806	37.808	75.505	58,8	135,8
GV 08 ...	1.300	3.155	43.210	86.291	67,2	155,2
GV 09 ...	1.450	3.503	48.611	97.078	75,6	174,6

A	M12A
T	M12T

(2) The radiated power (mW) is before the lenses.

Model GV· Ultraviolet 365 nm



365nm
ULTRAVIOLET

TRANSPARENT

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

60.000h
LIFESPAN

Table of characteristics

	Length L (mm)	Weight (g)	Radiated power [2] (mW) CONT.	Radiated power [2] (mW) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
GV 01 ...	250	741	6.545	12.600	17	36
GV 02 ...	400	1.063	13.090	25.200	34	72
GV 03 ...	550	1.411	19.635	37.800	51	108
GV 04 ...	700	1.760	26.180	50.400	68	144
GV 05 ...	850	2.109	32.725	63.000	85	180
GV 06 ...	1.000	2.457	39.270	75.600	102	216
GV 07 ...	1.150	2.806	45.815	88.200	119	252
GV 08 ...	1.300	3.155	52.360	100.800	136	288
GV 09 ...	1.450	3.503	58.905	113.400	153	324

A	M12A
T	M12T

(2) The radiated power (mW) is before the lenses.

Parallel Series
P2D

The Paralelo or P2D series consists of two linear PD luminaires strung in parallel.

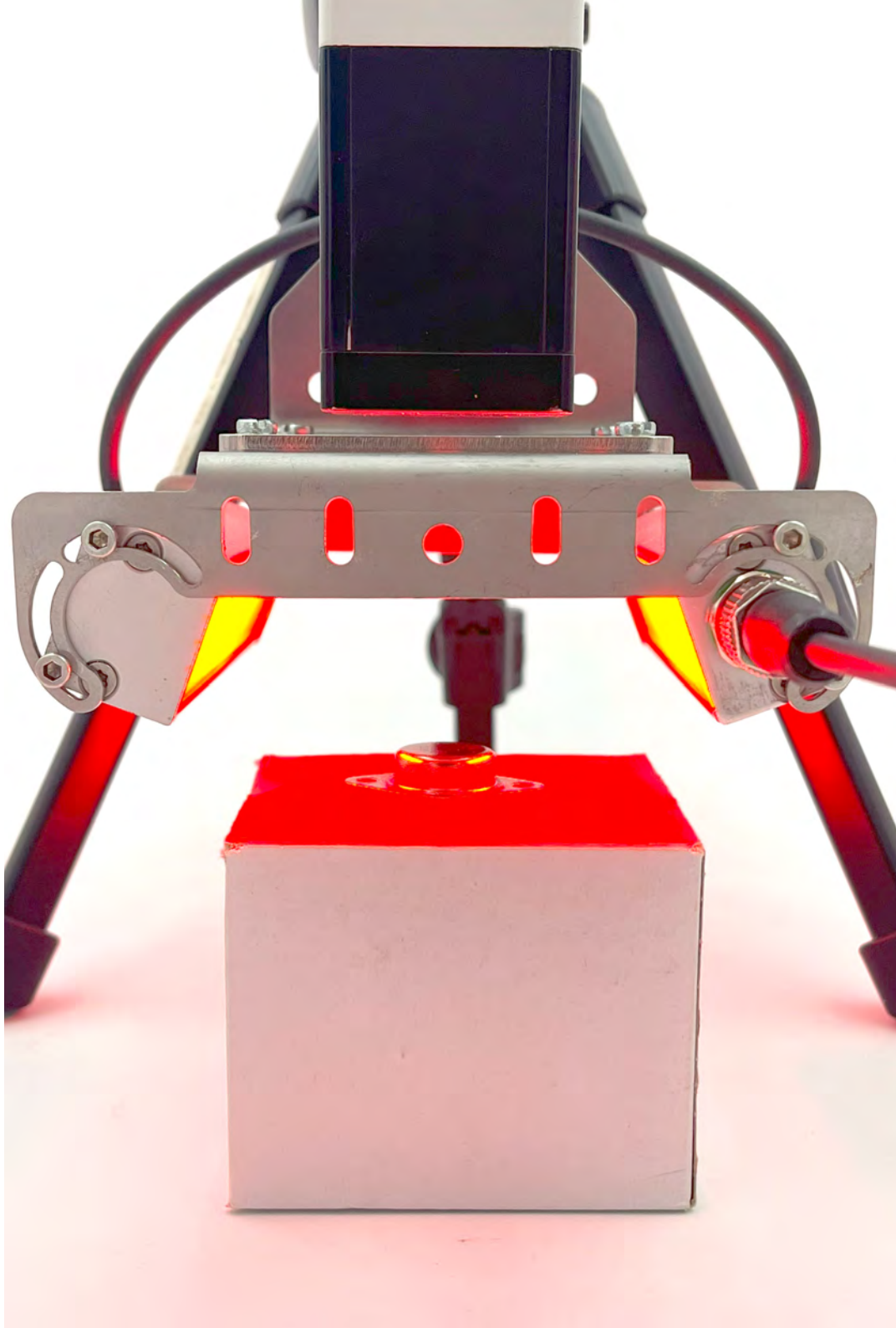
By means of the anchoring system specially designed for this series, we can give a different inclination to each of the luminaires that make up the ensemble, facilitating the configuration of the light in artificial vision projects.

With our electronics we ensure a long life of the product, without flickering effect and maintaining the luminous flux throughout the life of the product. The wavelength of the LED is available in White, Red, Infrared, Ultraviolet and RGB.

We recommend this type of luminaire for the homogeneous illumination of surfaces and above all where there is a need for dark field lighting, either to highlight edges or differences in the relief of the target piece thanks to its configurable inclination.

Being a product made entirely of aluminium with polycarbonate diffuser with various opening angles available, it ensures high impact resistance and quality finishes.

Finally, by receiving the product pre-assembled, we achieve a reduction in installation costs on site, limiting unforeseen events and the need for additional tools.



Parallel · P2D Series



24 V
DC

NOT
CASCADABLE

CABLE
M12A

MACHINE VISION

POLARIZED

CONTINUOUS 1x
STROBE 4x

INTEGRATED
CONTROLLER

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transformar Semidiffuse Ultradiffuse	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

P2D

Connection

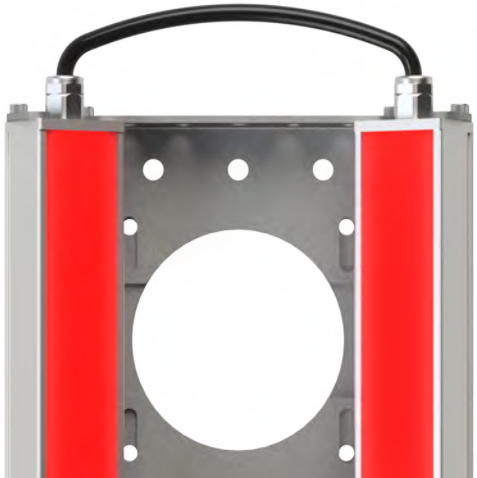
M12A input - Cable	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



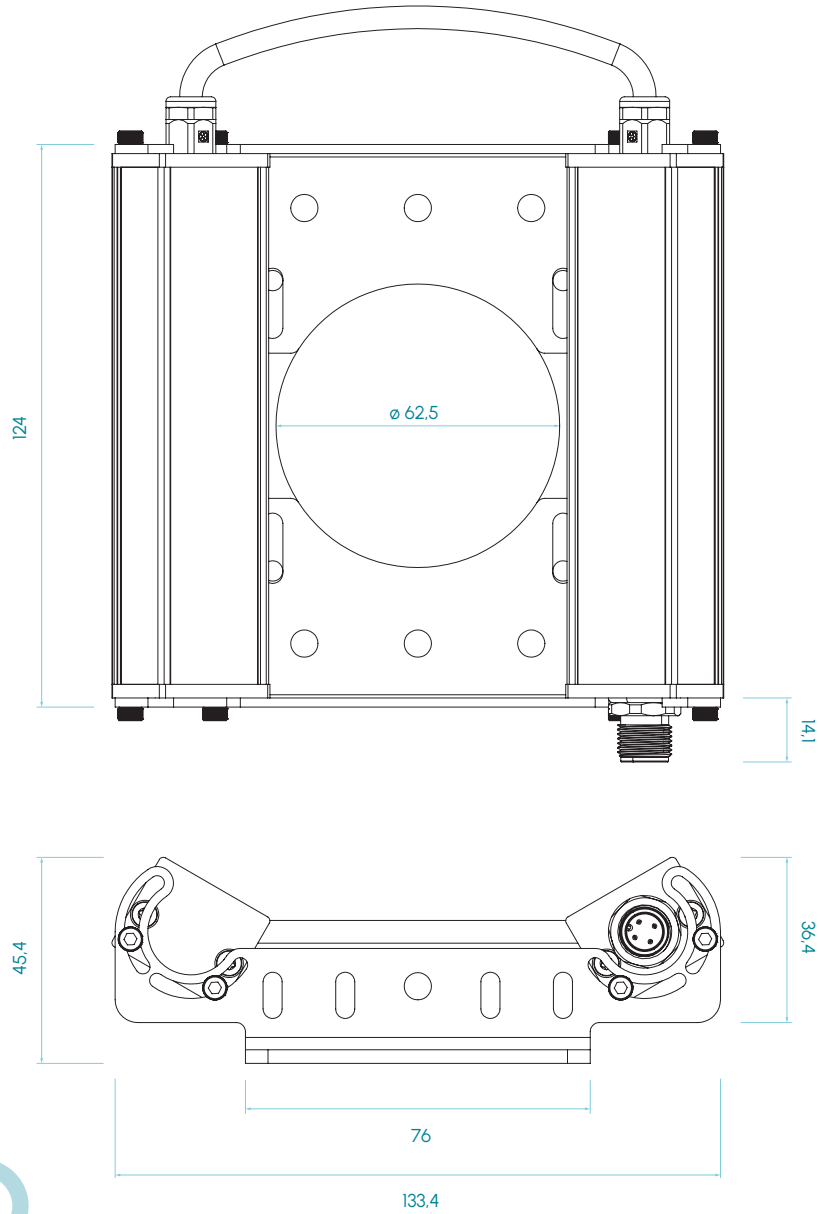
Fixings

C00F1, P00R2



Measures

IP40 / IP65



Measures in mm

P2D

Selection guide

P2D

- **Input**
  - K - Axial Cable, 2 m
  - Y - M12A axial male connector
  - PY - 10 cm axial cable with M12A male connector
- **Diffuser**
  - C - Semidiffuse
  - U - Ultradiffuse
  - M - Semidiffuse Polarized (1) (3)
  - G - Ultradiffuse Polarized (1) (3)
  - T - Transparent (2)
- **IP Rating**
  - 3 - IP40
  - 5 - IP65
- **Wavelength**
  - D - White 5000K
  - R - Red 625nm
  - F - Infrared 850nm
  - U - Ultraviolet 365nm
- **Working mode**
  - P - Continuous
  - Z - Master Continuous - Strobe
- **Length each section**
  - 1 ... 4 - 90 mm steps

(1) Polarized Light versions are only available exclusively for D and R wavelengths.
(2) Transparent cover is only available for U wavelength.
(3) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

Model P2D · White 5000K





5000K
WHITE

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

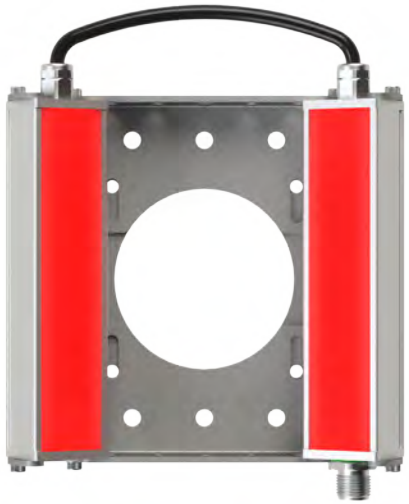
60.000h
LIFESPAN

Table of characteristics

	Width	Length	Weight	Luminous flux (4) (lm)		Power consumed (W)	
	(mm)	(mm)	(g)	CONT.	STROBE	CONT.	STROBE
P2D 1...	135	125	430	608	2.432	3,8	15,2
P2D 2...	135	215	780	1.216	4.864	7,6	30,4
P2D 3...	135	305	1.130	1.824	7.296	11,4	45,6
P2D 4...	135	395	1.480	2.432	9.728	15,2	60,8

(4) The luminous flux (lm) is before diffuser.

Model P2D · Red 625 nm





625nm
RED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

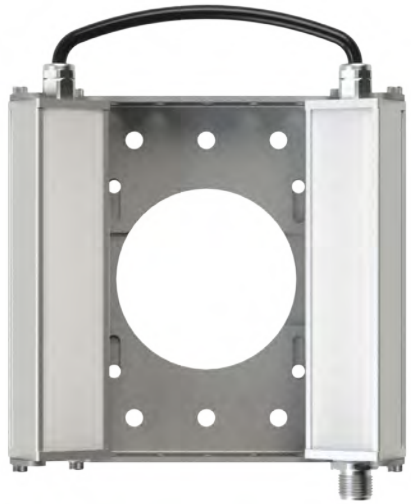
60.000h
LIFESPAN

Table of characteristics

	Width	Length	Weight	Luminous flux [4] (lm)		Power consumed (W)	
	(mm)	(mm)	(g)	CONT.	STROBE	CONT.	STROBE
P2D 1...	135	124	427	194	775	3,8	15,2
P2D 2...	135	215	780	388	1.550	7,6	30,4
P2D 3...	135	305	1.130	581	2.326	11,4	45,6
P2D 4...	135	395	1.480	775	3.101	15,2	60,8

(4) The luminous flux (lm) is before diffuser.

Model P2D · Infrared 850 nm





850nm
INFRARED


SEMIDIFFUSE
60°


ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

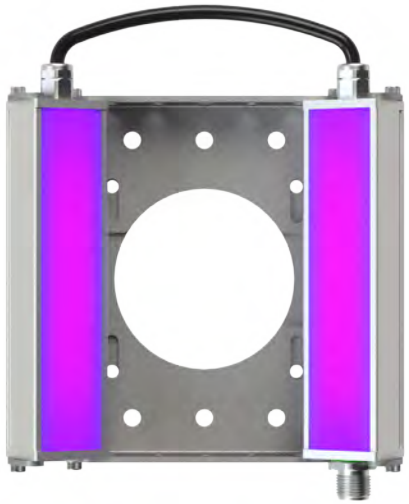
60.000h
LIFESPAN

Table of characteristics

	Width (mm)	Length (mm)	Weight (g)	Radiated power [4] (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
P2D 1...	135	124	427	0,8	3,2	2,0	8,0
P2D 2...	135	215	780	1,6	6,4	4,0	16,0
P2D 3...	135	305	1.130	2,4	9,6	6,0	24,0
P2D 4...	135	395	1.480	3,2	12,8	8,0	32,0

(4) The radiated power (W) is before the diffuser.

Model P2D · Ultraviolet 365 nm





365nm
ULTRAVIOLET

TRANSPARENT
55°

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

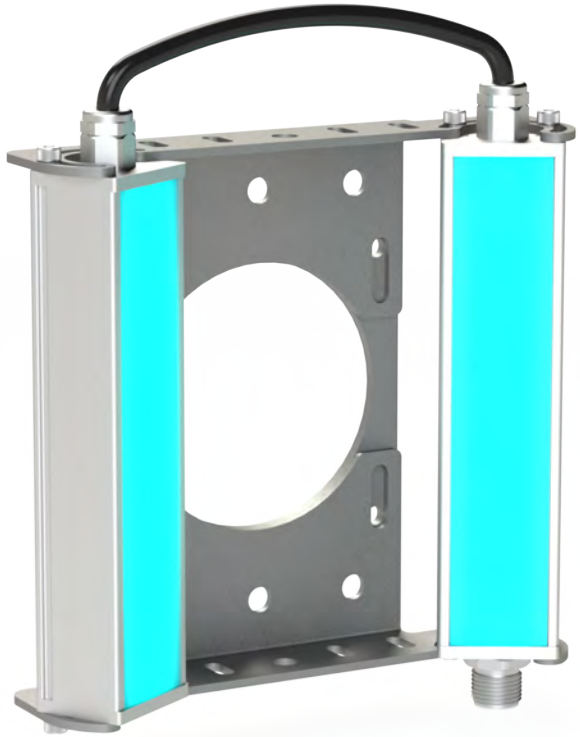
15.000h
LIFESPAN

Table of characteristics

	Width (mm)	Length (mm)	Weight (g)	Radiated power [4] (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
P2D 1...	135	124	427	1,9	7,5	3,8	15,2
P2D 2...	135	215	780	3,7	14,9	7,6	30,4
P2D 3...	135	305	1.130	5,6	22,4	11,4	45,6
P2D 4...	135	395	1.480	7,5	29,9	15,2	60,8

(4) The radiated power (W) is before the diffuser.

Parallel · P2D Series RGB



24 V DC

PWM
DIMABLE

NOT CASCADABLE

CABLE
M12A

RGB

POLARIZED

MACHINE VISION

SIGNALING

IP40
IP65

CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male



Fixings

C00F1, P00R2

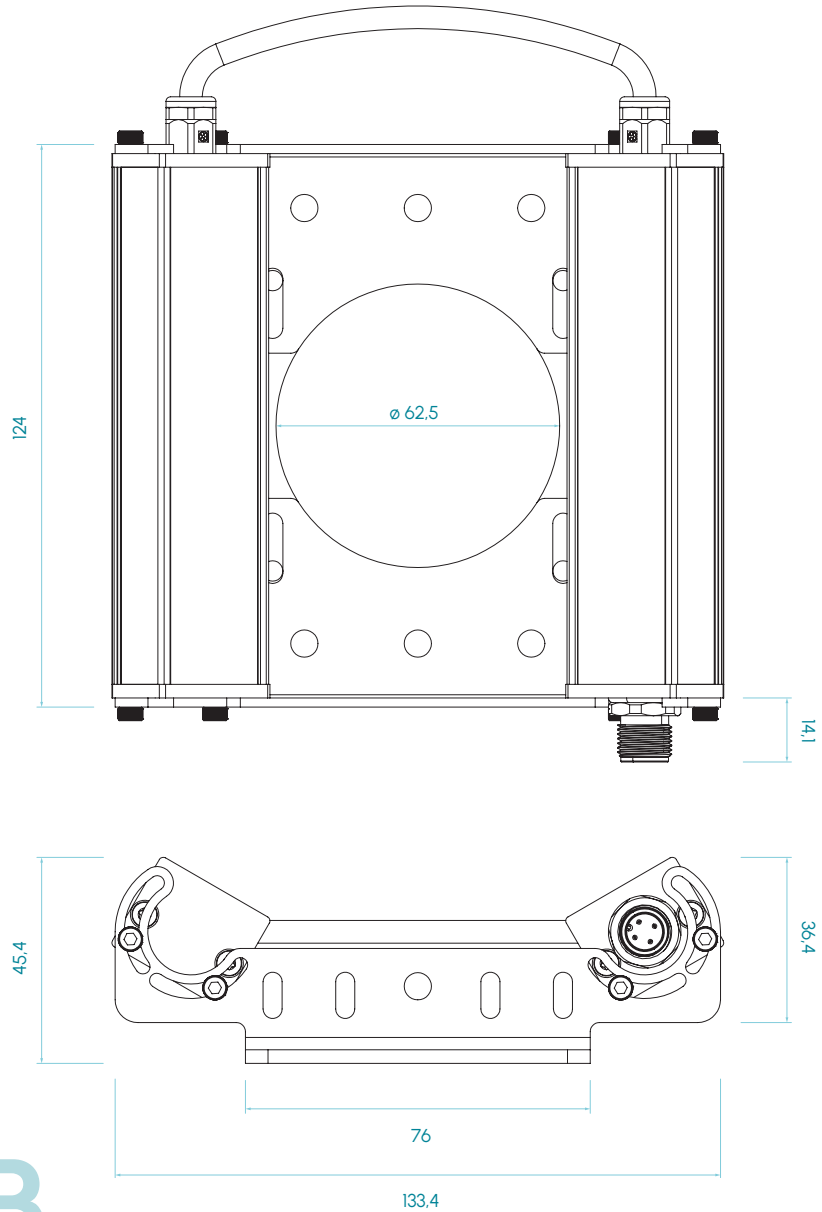


P2D

RGB

Measures

IP40 / IP65



Measures in mm

RGB

Selection guide

P2D P Q

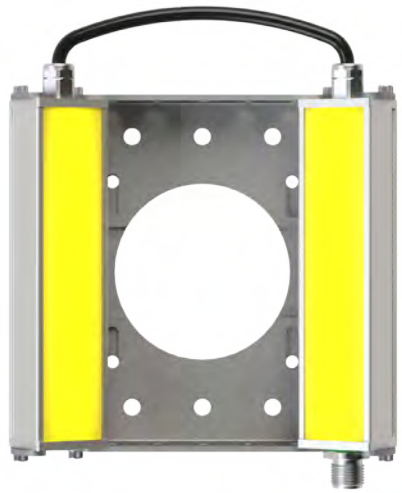
Input
- **K** - Axial Cable, 2 m
- **Y** - M12A axial male connector
- **PY** - 10 cm axial cable with M12A male connector

Diffuser
- **C** - Semidiffuse
- **U** - Ultradiffuse
- **M** - Semidiffuse Polarized
- **G** - Ultradiffuse Polarized

IP Rating
- **3** - IP40
- **5** - IP65

Length each section
- **1 ... 4** - 90 mm steps

Model P2D · RGB





RGB

RGB

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Width	Length	Weight	Luminous flux [1] (lm)			Power consumed (W)
	(mm)	(mm)	(g)	R	G	B	
P2D 1...	135	124	427	19	52	14	3,6
P2D 2...	135	215	780	38	103	29	7,2
P2D 3...	135	305	1.130	58	155	43	10,8
P2D 4...	135	395	1.480	77	206	58	14,4

(1) The luminous flux (lm) is before diffuser.

Triangular Series
P3D

The Triangular or P3D series consists of three linear PD luminaires, both fed by a single input.

By means of the anchoring system specially designed for this series, we can give a different inclination to each of the luminaires that make up the set, facilitating the configuration of the light in artificial vision projects.

Through our electronics we ensure a long life of the product, without flickering effect and maintaining the luminous flux throughout the life of the product. The wavelength of the LED is available in White, Red, Infrared, Ultraviolet and RGB.

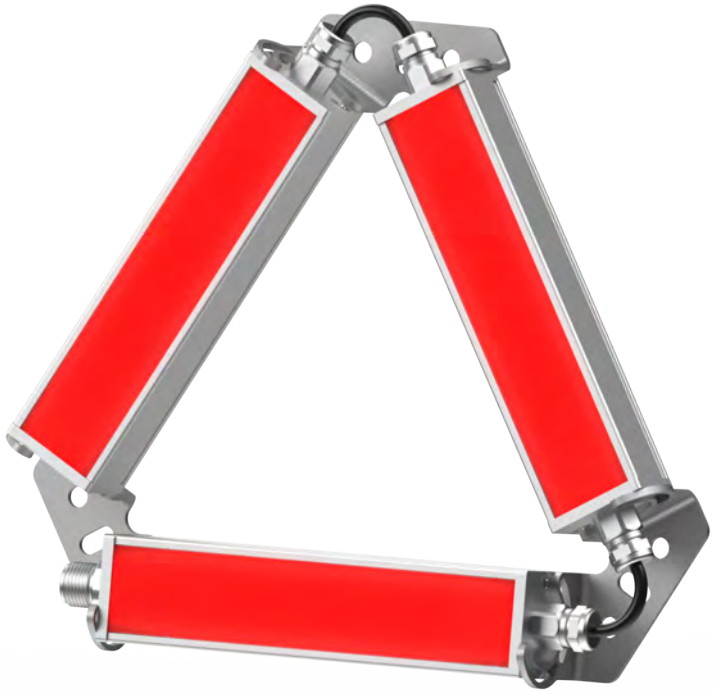
We recommend this type of luminaire for the homogeneous illumination of surfaces and above all where there is a need for dark field lighting, either to highlight edges or differences in the relief of the target piece thanks to its configurable inclination.

Being a product made entirely of aluminium with polycarbonate diffuser with various opening angles available, it ensures high impact resistance and quality finishes.

Finally, by receiving the product pre-assembled, we achieve a reduction in installation costs on site, limiting unforeseen events and the need for additional tools.



Triangular · P3D Series



24 V
DC

NOT
CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 4x

INTEGRATED
CONTROLLER

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparente Semidiffuse Ultradiffuse	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

P3D

Connection

M12A input - Cable	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



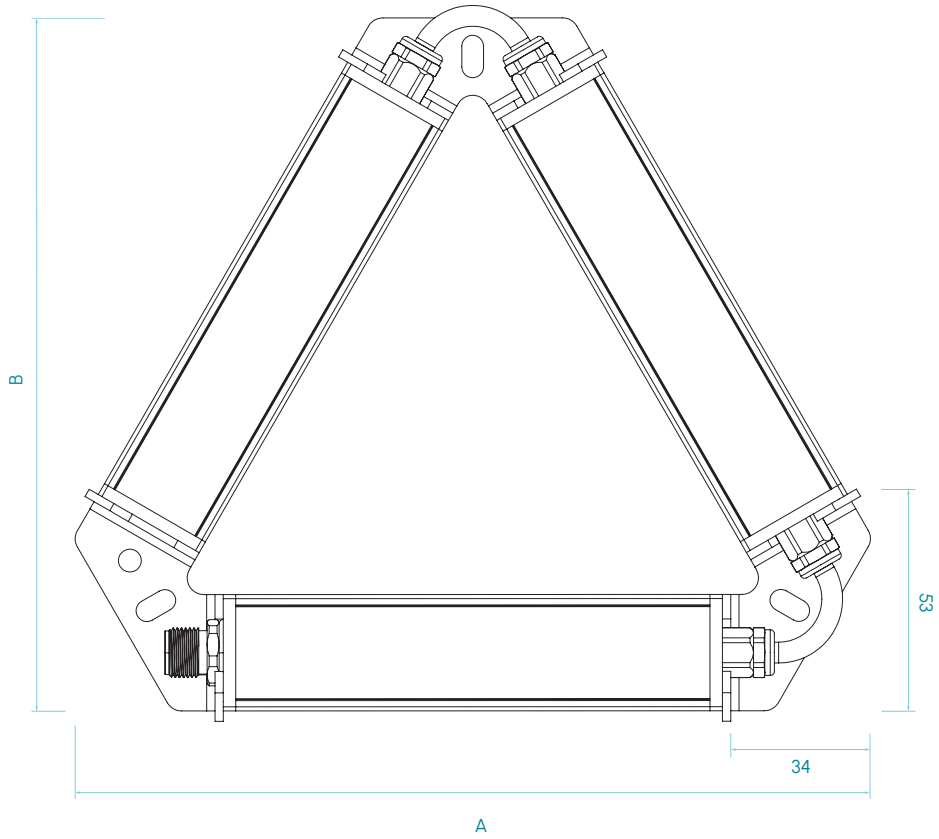
Fixings

P00R3, M6D16



Measures

IP40 / IP65



Measures in mm

P3D

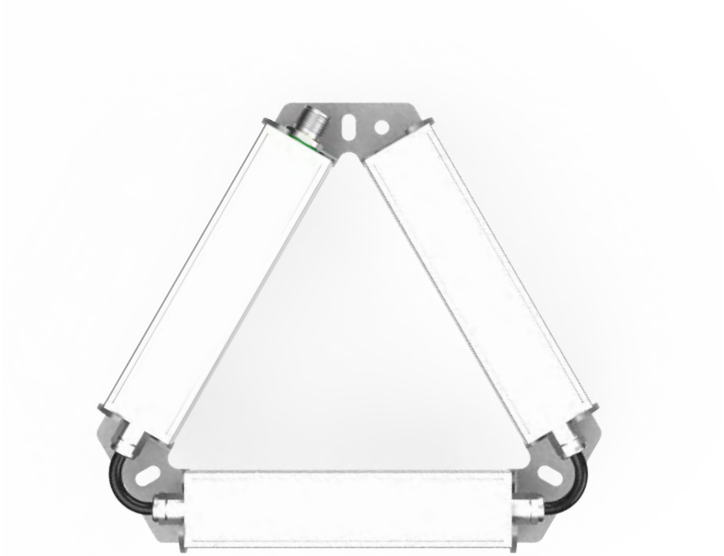
Selection guide

P3D

- **Input**
  - K - Axial Cable, 2 m
  - Y - M12A axial male connector
  - PY - 10 cm axial cable with M12A male connector
- **Diffuser**
  - C - Semidiffuse
  - U - Ultradiffuse
  - T - Transparent (1)
- **IP Rating**
  - 3 - IP40
  - 5 - IP65
- **Wavelength**
  - D - White 5000K
  - R - Red 625nm
  - F - Infrarred 850nm
  - U - Ultraviolet 365nm
- **Working mode**
  - P - Continuous
  - Z - Master Continuous - Strobe
- **Length each section**
  - 1 ... 4 - 90 mm steps

(1) Diffuser available only for wavelength U.

Model P3D · White 5000K





5000K
WHITE

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

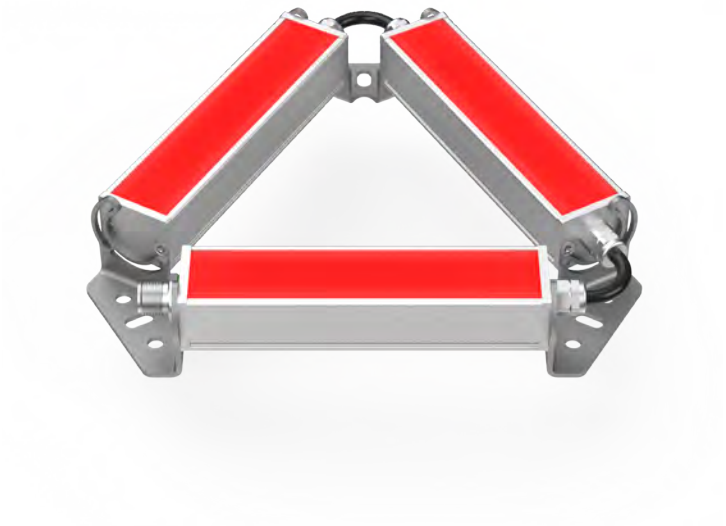
Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Luminous flux (2) (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
P3D 1...	189	166	382	912	3.648	5,7	22,8
P3D 2...	279	242	526	1.824	7.296	11,4	45,6
P3D 3...	369	320	670	2.736	10.944	17,1	68,4
P3D 4...	459	398	814	3.648	14.592	22,8	91,2

(2) Luminous flux (lm) is before diffuser.

Model P3D · Red 625 nm





625nm
RED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Luminous flux (2) (lm) CONT.	Luminous flux (2) (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
P3D 1...	189	166	382	291	1.163	5,7	22,8
P3D 2...	279	242	526	581	2.326	11,4	45,6
P3D 3...	369	320	670	872	3.488	17,1	68,4
P3D 4...	459	398	814	1.163	4.651	22,8	91,2

(2) Luminous flux (lm) is before diffuser.

Model P3D · Infrared 850 nm





850nm
INFRARED


SEMIDIFFUSE
60°


ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

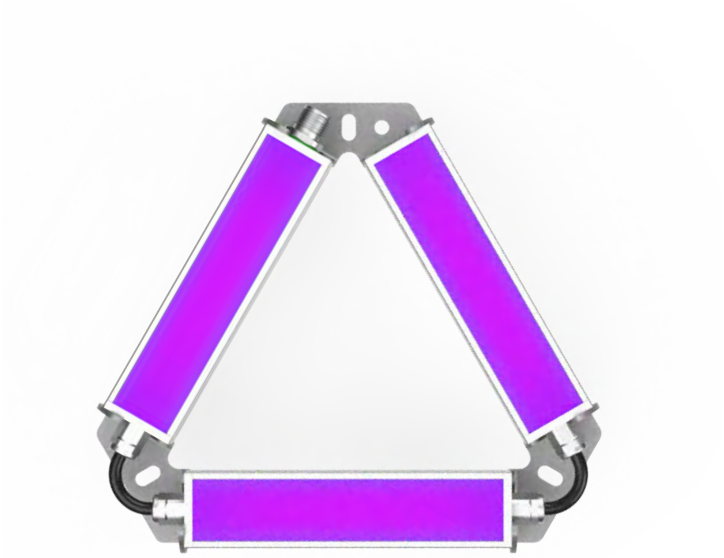
60.000h
LIFESPAN

Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Radiated power (2) (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
P3D 1...	189	166	382	1,2	4,8	3,0	12,0
P3D 2...	279	242	526	2,4	9,6	6,0	24,0
P3D 3...	369	320	670	3,6	14,4	9,0	36,0
P3D 4...	459	398	814	4,8	19,2	12,0	48,0

(2) The radiated power (W) is before diffuser.

Model P3D · Ultraviolet 365 nm





365nm
ULTRAVIOLET

TRANSPARENT
55°

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

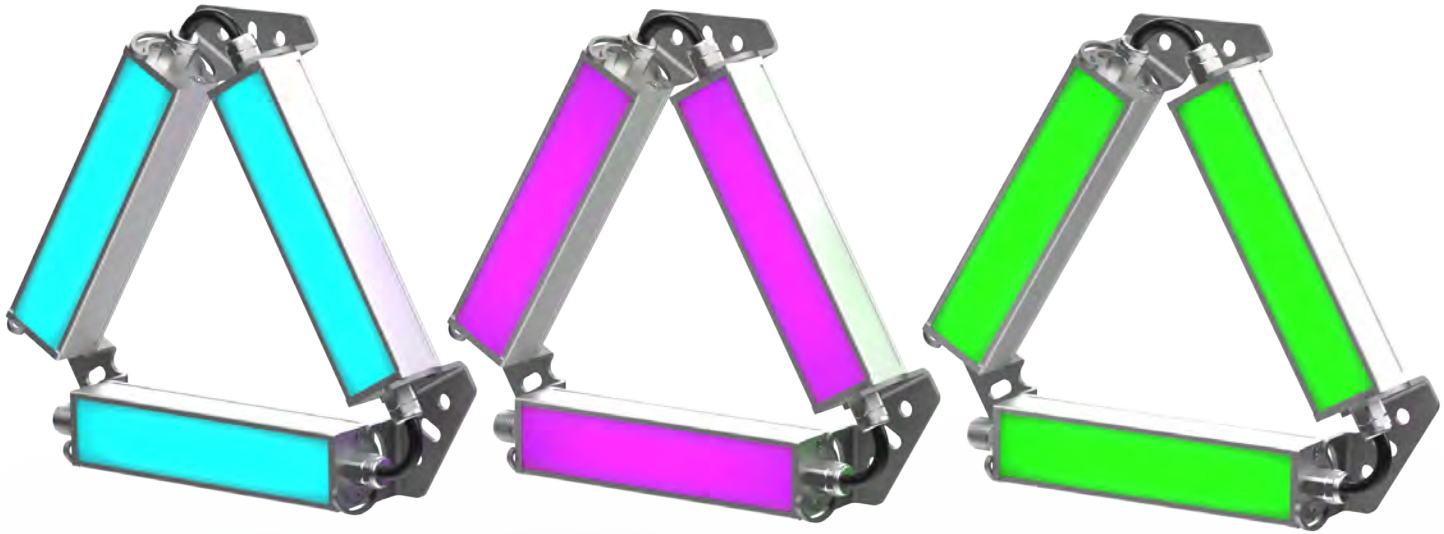
15.000h
LIFESPAN

Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Radiated power [2] (W) CONT.	Radiated power [2] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
P3D 1...	189	166	382	2,8	11,2	5,7	22,8
P3D 2...	279	242	526	5,6	22,4	11,4	45,6
P3D 3...	369	320	670	8,4	33,6	17,1	68,4
P3D 4...	459	398	814	11,2	44,8	22,8	91,2

(2) The radiated power (W) is before diffuser.

Triangular · P3D SERIES RGB



24 V DC

PWM
DIMABLE

NOT CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

RGB

MACHINE VISION

SIGNALING

IP40
IP65

CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male



Fixings

P00R3, M6D16

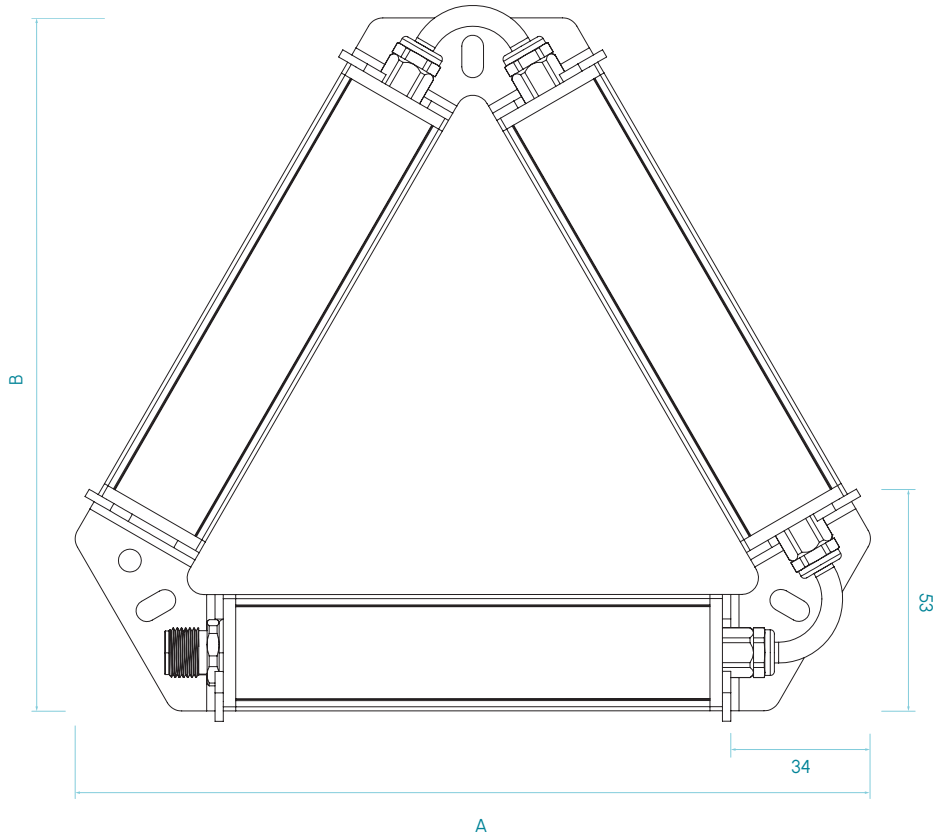


P3D

RGB

Measures

IP40 / IP65



Measures in mm

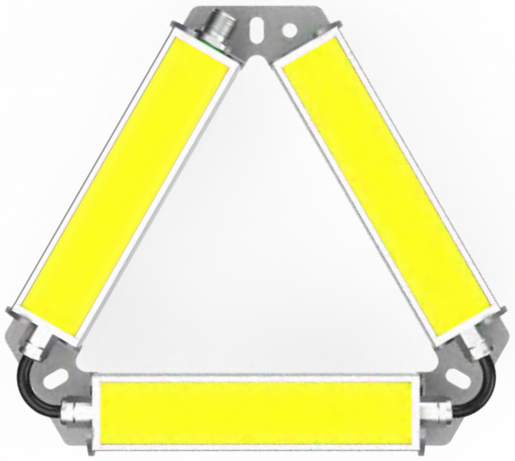
Selection guide

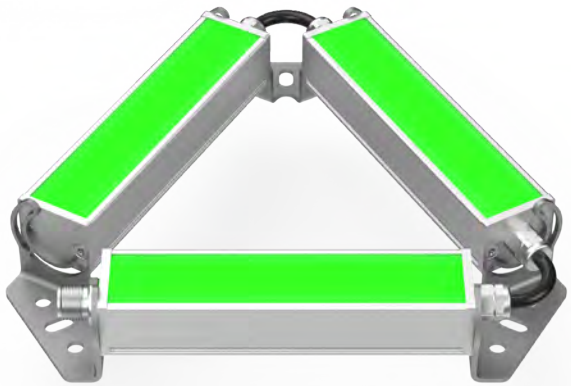
P3D P Q

- Input
  - K - Axial Cable, 2 m
  - Y - M12A axial male connector
  - PY - 10 cm axial cable with M12A male connector
- Diffuser
  - C - Semidiffuse
  - U - Ultradiffuse
- IP Rating
  - 3 - IP40
  - 5 - IP65
- Length
  - 1 ... 4 - 90 mm steps

RGB

Modelos P3D · RGB





RGB

RGB

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Luminous flux (1) (lm) R	G	B	Power consumed (W)
P3D 1...	189	166	382	29	77	22	5,4
P3D 2...	279	242	526	58	155	43	10,8
P3D 3...	369	320	670	86	232	65	16,2
P3D 4...	459	398	814	115	310	86	21,6

(1) Luminous flux (lm) is before diffuser.

Rectangular Series
P4D

The rectangular or P4D series is the union of four linear PD enseriadas luminaires allowing the power supply of all of them through a single input giving the possibility of configuring the lighting system as a square or rectangle.

By means of the anchoring system specially designed for this series, we can give a different inclination to each of the luminaires that make up the ensemble, facilitating the configuration of the light in artificial vision projects.

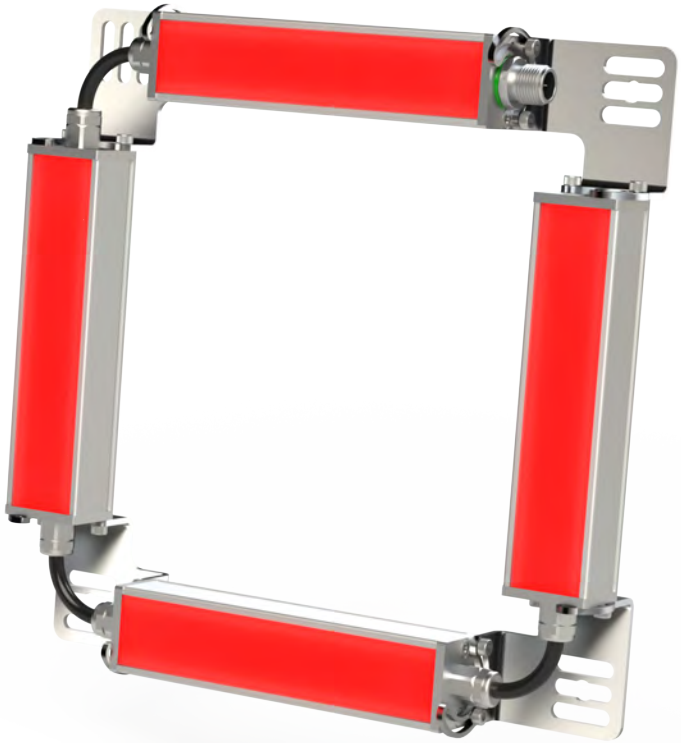
By using electronics specially designed for machine vision projects, we ensure a long life of the product, without flickering effect and maintaining the luminous flux throughout the life of the product.

We recommend this type of luminaire for the homogeneous illumination of surfaces and above all where there is a need for dark field illumination, either to highlight edges or differences in the relief of the target part thanks to its configurable inclination.

Being a product made entirely of aluminium with a polycarbonate diffuser with various opening angles available, it ensures high impact resistance and quality finishes.
Finally, by receiving the product pre-assembled, we achieve a reduction in installation costs on site, limiting unforeseen events and the need for additional tools.



Rectangular · P4D Series



24 V
DC

NOT
CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 4x

INTEGRATED
CONTROLLER

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparent Semidiffuse Ultradiffuse	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

P4D

Connection

M12A input - Cable	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



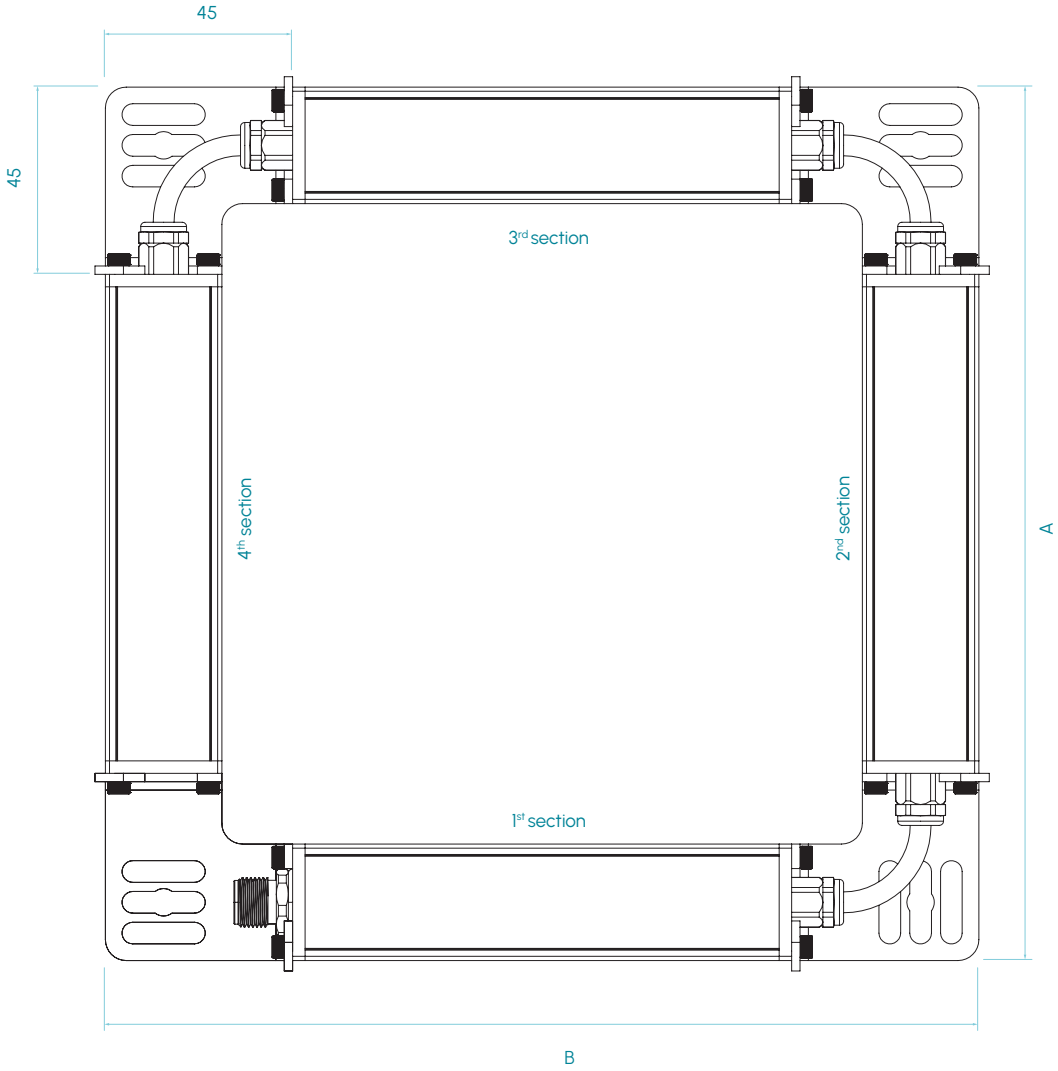
Fixings

P00R4,M6D16



Measures

IP40 / IP65



Measures in mm

P4D

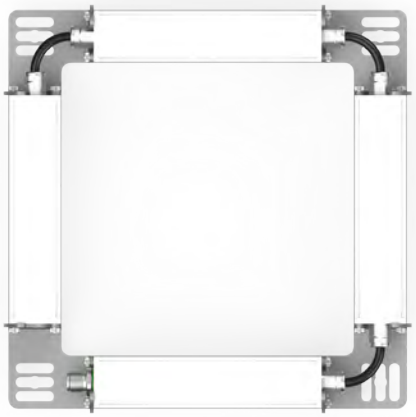
Selection guide

P4D

- **Input**
  - K - Axial Cable, 2 m
  - Y - M12A axial male connector
  - PY - 10 cm axial cable with M12A male connector
- **Diffuser**
  - C - Semidiffuse
  - U - Ultradiffuse
  - T - Transparent (1)
- **IP Rating**
  - 3 - IP40
  - 5 - IP65
- **Wavelength**
  - D - White 5000K
  - R - Red 625nm
  - F - Infrarred 850nm
  - U - Ultraviolet 365nm
- **Working mode**
  - P - Continuous
  - Z - Master Continuous - Strobe
- **Length (2nd y 4th section)**
  - 1 ... 4 - 90 mm steps
- **Length (1st y 3rd section)**
  - 1 ... 4 - 90 mm steps

(1) Diffuser available only for wavelength U.

Model P4D · White 5000K





5000K
WHITE

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

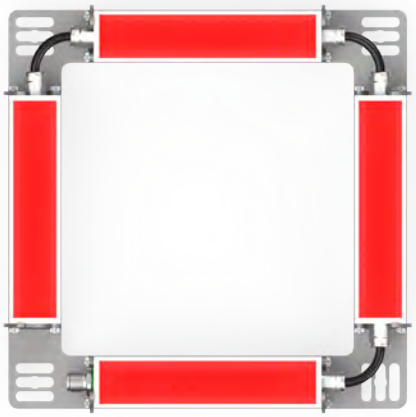
60.000h
LIFESPAN

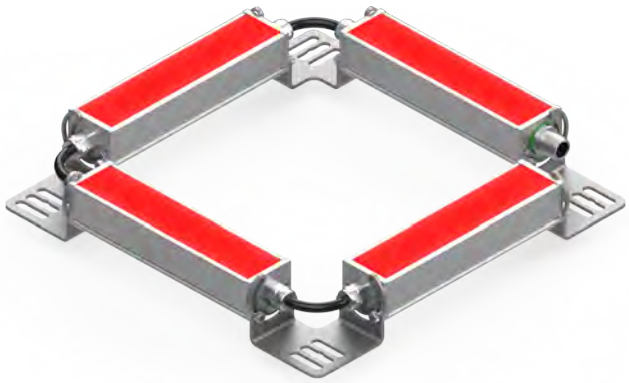
Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Luminous flux (2) (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
P4D 11...	210	210	520	1.216	4.864	7,6	30,4
P4D 12...	210	300	616	1.824	7.296	11,4	45,6
P4D 13...	210	390	712	2.432	9.728	15,2	60,8
P4D 14...	210	480	808	3.040	12.160	19,0	76,0
P4D 21...	300	210	616	1.824	7.296	11,4	45,6
P4D 22...	300	300	712	2.432	9.728	15,2	60,8
P4D 23...	300	390	808	3.040	12.160	19,0	76,0
P4D 24...	300	480	904	3.648	14.592	22,8	91,2
P4D 31...	390	210	712	2.432	9.728	15,2	60,8
P4D 32...	390	300	808	3.040	12.160	19,0	76,0
P4D 33...	390	390	904	3.648	14.592	22,8	91,2
P4D 34...	390	480	1.000	4.256	-	26,6	-
P4D 41...	480	210	808	3.040	12.160	19,0	76,0
P4D 42...	480	300	904	3.648	14.592	22,8	91,2
P4D 43...	480	390	1.000	4.256	-	26,6	-
P4D 44...	480	480	1.096	4.864	-	30,4	-

(2) Luminous flux (lm) is before diffuser.

Model P4D · Red 625 nm





625nm
RED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

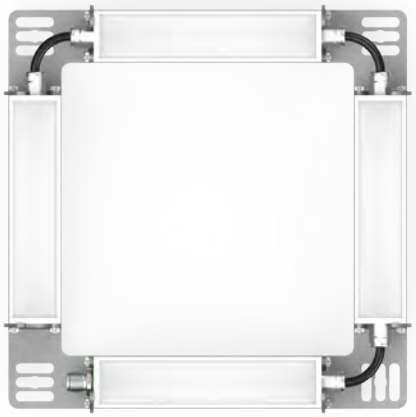
60.000h
LIFESPAN

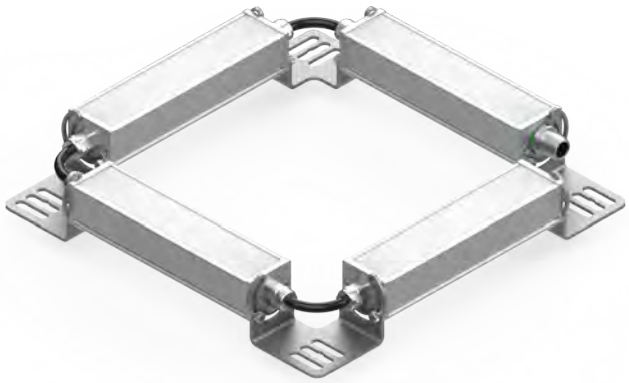
Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Luminous flux (2) (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
P4D 11...	210	210	520	388	1.550	7,6	30,4
P4D 12...	210	300	616	581	2.326	11,4	45,6
P4D 13...	210	390	712	775	3.101	15,2	60,8
P4D 14...	210	480	808	969	3.876	19,0	76,0
P4D 21...	300	210	616	581	2.326	11,4	45,6
P4D 22...	300	300	712	775	3.101	15,2	60,8
P4D 23...	300	390	808	969	3.876	19,0	76,0
P4D 24...	300	480	904	1.163	4.651	22,8	91,2
P4D 31...	390	210	712	775	3.101	15,2	60,8
P4D 32...	390	300	808	969	3.876	19,0	76,0
P4D 33...	390	390	904	1.163	4.651	22,8	91,2
P4D 34...	390	480	1.000	1.357	-	26,6	-
P4D 41...	480	210	808	969	3.876	19,0	76,0
P4D 42...	480	300	904	1.163	4.651	22,8	91,2
P4D 43...	480	390	1.000	1.357	-	26,6	-
P4D 44...	480	480	1.096	1.550	-	30,4	-

(2) Luminous flux (lm) is before diffuser.

Model P4D · Infrared 850 nm





850nm
INFRARED


SEMIDIFFUSE
60°


ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

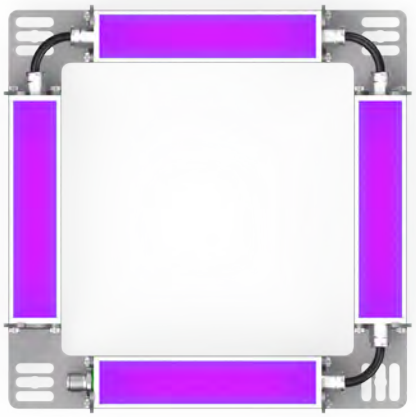
60.000h
LIFESPAN

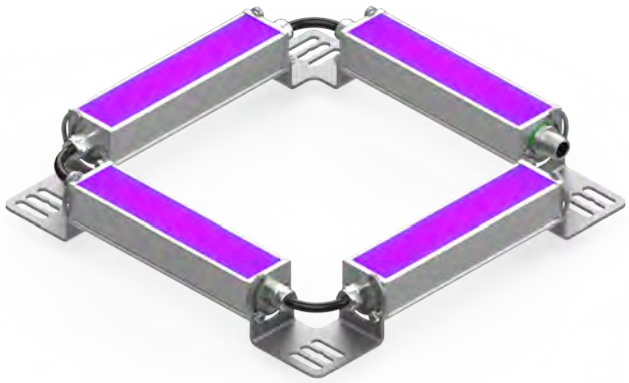
Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Radiated power (2) (W) CONT.	Radiated power (2) (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
P4D 11...	210	210	520	1,6	6,4	4,0	16,0
P4D 12...	210	300	616	2,4	9,6	6,0	24,0
P4D 13...	210	390	712	3,2	12,8	8,0	32,0
P4D 14...	210	480	808	4,0	16,0	10,0	40,0
P4D 21...	300	210	616	2,4	9,6	6,0	24,0
P4D 22...	300	300	712	3,2	12,8	8,0	32,0
P4D 23...	300	390	808	4,0	16,0	10,0	40,0
P4D 24...	300	480	904	4,8	19,2	12,0	48,0
P4D 31...	390	210	712	3,2	12,8	8,0	32,0
P4D 32...	390	300	808	4,0	16,0	10,0	40,0
P4D 33...	390	390	904	4,8	19,2	12,0	48,0
P4D 34...	390	480	1.000	5,6	22,3	14,0	56,0
P4D 41...	480	210	808	4,0	16,0	10,0	40,0
P4D 42...	480	300	904	4,8	19,2	12,0	48,0
P4D 43...	480	390	1.000	5,6	22,3	14,0	56,0
P4D 44...	480	480	1.096	6,4	25,5	16,0	64,0

(2) Radiated power (W) is before diffuser.

Model P4D · Ultraviolet 365 nm





365nm
ULTRAVIOLET

TRANSPARENT
55°

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

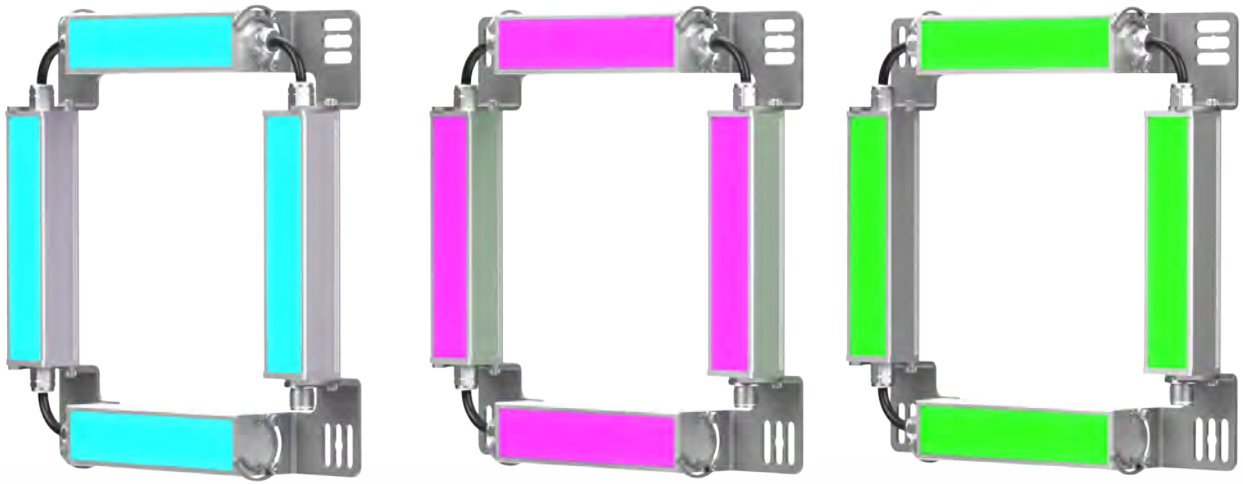
15.000h
LIFESPAN

Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Radiated power [2] (W) CONT.	Radiated power [2] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
P4D 11...	210	210	520	3,7	14,9	7,6	30,4
P4D 12...	210	300	616	5,6	22,4	11,4	45,6
P4D 13...	210	390	712	7,5	29,9	15,2	60,8
P4D 14...	210	480	808	9,3	37,3	19,0	76,0
P4D 21...	300	210	616	5,6	22,4	11,4	45,6
P4D 22...	300	300	712	7,5	29,9	15,2	60,8
P4D 23...	300	390	808	9,3	37,3	19,0	76,0
P4D 24...	300	480	904	11,2	44,8	22,8	91,2
P4D 31...	390	210	712	7,5	29,9	15,2	60,8
P4D 32...	390	300	808	9,3	37,3	19,0	76,0
P4D 33...	390	390	904	11,2	44,8	22,8	91,2
P4D 34...	390	480	1.000	13,1	-	26,6	-
P4D 41...	480	210	808	9,3	37,3	19,0	76,0
P4D 42...	480	300	904	11,2	44,8	22,8	91,2
P4D 43...	480	390	1.000	13,1	-	26,6	-
P4D 44...	480	480	1.096	14,9	-	30,4	-

(2) Radiated power (W) is before diffuser.

Rectangular · P4D Series RGB



24 V DC

PWM
DIMABLE

NOT CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

RGB

MACHINE VISION

SIGNALING

IP40
IP65

CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

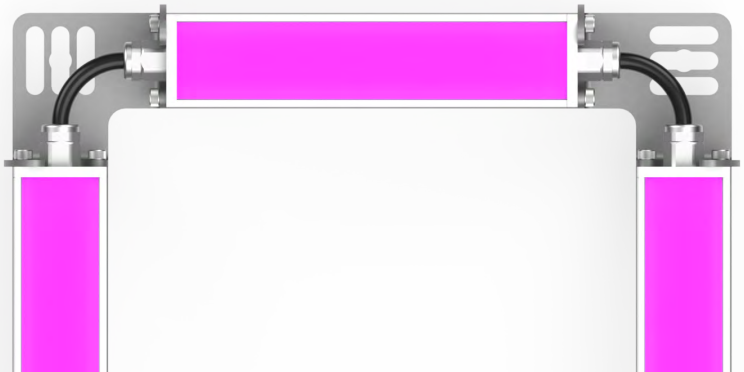
M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male



Fixings

P00R4,M6D16

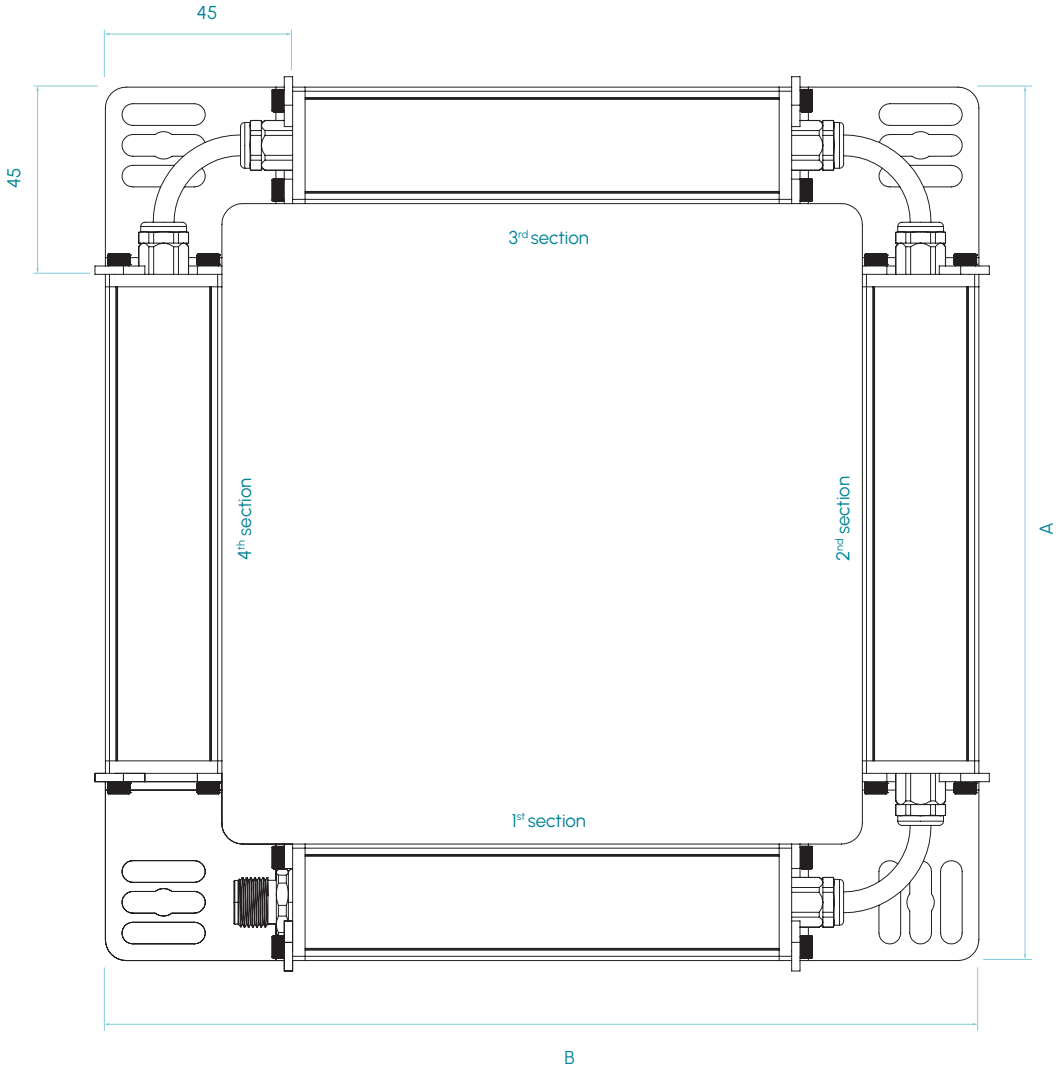


P4D

RGB

Measures

IP40 / IP65



Measures in mm

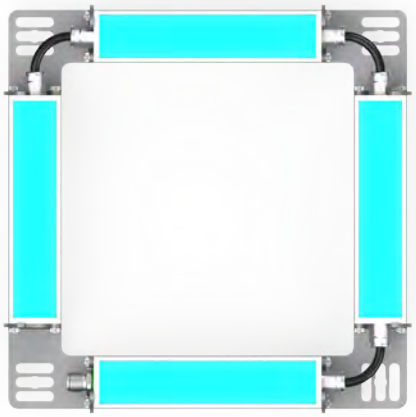
Selection guide

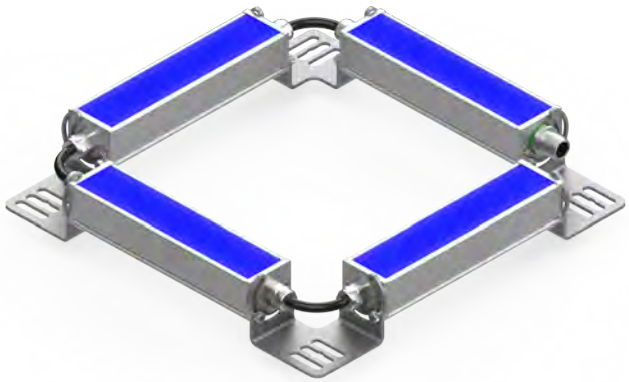
P4D P Q

- Input
  - K - Axial Cable, 2 m
  - Y - M12A axial male connector
  - PY - 10 cm axial cable with M12A male connector
- Diffuser
  - C - Semidiffuse
  - U - Ultradiffuse
- IP Rating
  - 3 - IP40
  - 5 - IP65
- Length (2nd y 4th section)
  - 1 ... 4 - 90 mm steps
- Length (1st y 3rd section)
  - 1 ... 4 - 90 mm steps

RGB

Model P4D · RGB





RGB

RGB

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length A (mm)	Length B (mm)	Weight (g)	Luminous flux (1) (lm) R	G	B	Power consumed (W)
P4D 11...	210	210	520	38	103	29	7,2
P4D 12...	210	300	616	58	155	43	10,8
P4D 13...	210	390	712	77	206	58	14,4
P4D 14...	210	480	808	96	258	72	18,0
P4D 21...	300	210	616	58	155	43	10,8
P4D 22...	300	300	712	77	206	58	14,4
P4D 23...	300	390	808	96	258	72	18,0
P4D 24...	300	480	904	115	310	86	21,6
P4D 31...	390	210	712	77	206	58	14,4
P4D 32...	390	300	808	96	258	72	18,0
P4D 33...	390	390	904	115	310	86	21,6
P4D 34...	390	480	1.000	134	361	101	25,2
P4D 41...	480	210	808	96	258	72	18,0
P4D 42...	480	300	904	115	310	86	21,6
P4D 43...	480	390	1.000	134	361	101	25,2
P4D 44...	480	480	1.096	154	413	115	28,8

(1) Luminous flux (lm) is before diffuser.

Backlight Series
BD

In the BD or Backlight series we combine mechanical design, robustness and homogeneity in the illumination to achieve the best results in your machine vision projects. The product is made of anodised aluminium with IP65 watertightness, available in two dimensions.

The anchorage allows the product to be installed at 0o and 90o, which has been designed exclusively for this series.

Using electronics specially designed to illuminate projects related to artificial vision, we ensure a long product life, without flickering effect and preserving the luminous flux throughout the life of the product.

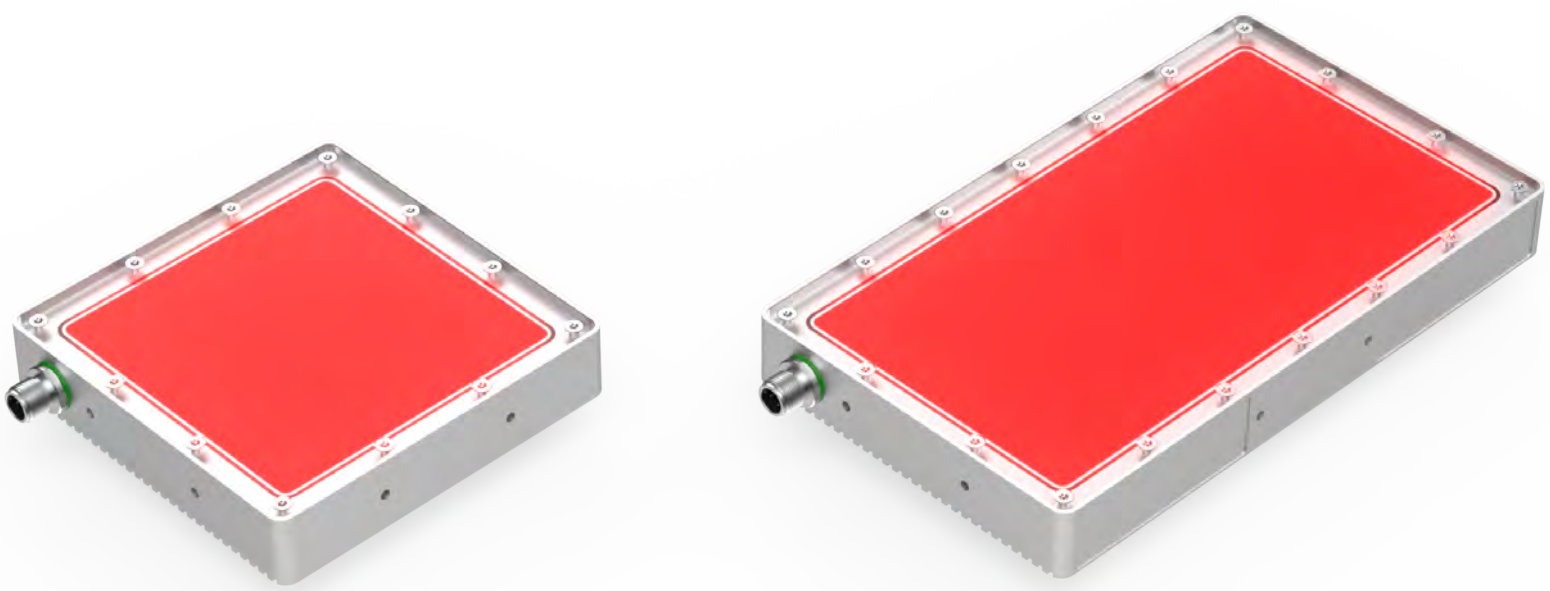
This product meets the highest standards of quality and efficiency both for projects where it is required to observe the contour of the part against the light or for ultra-diffuse and homogeneous direct lighting needs.

It has two diffuser models available, semi-diffuse and ultra-diffuse, both with the possibility of incorporating the polariser to eliminate possible glare on the surface.

It has 24Vdc power supply and control signals via industrial M12 connector for easy installation, and different operating modes to suit the most specific requirements.



Backlight · BD Series



24 V DC

NOT CASCADABLE

IP65

M12A

MACHINE VISION

CONTINUOUS 1x

STROBE 4x

INTEGRATED CONTROLLER

POLARIZED

36 MONTHS

EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparent Semidiffuse Ultradiffuse	110° 110° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Diffuser material	Methacrylate	
Connection types	M12A connector	
Standards	RoHs, CE	

Connection

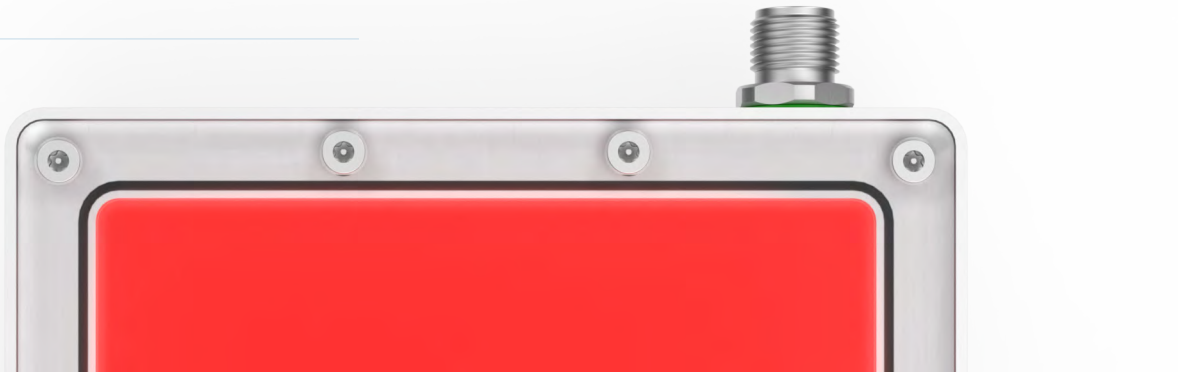
M12A input	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



Fixings

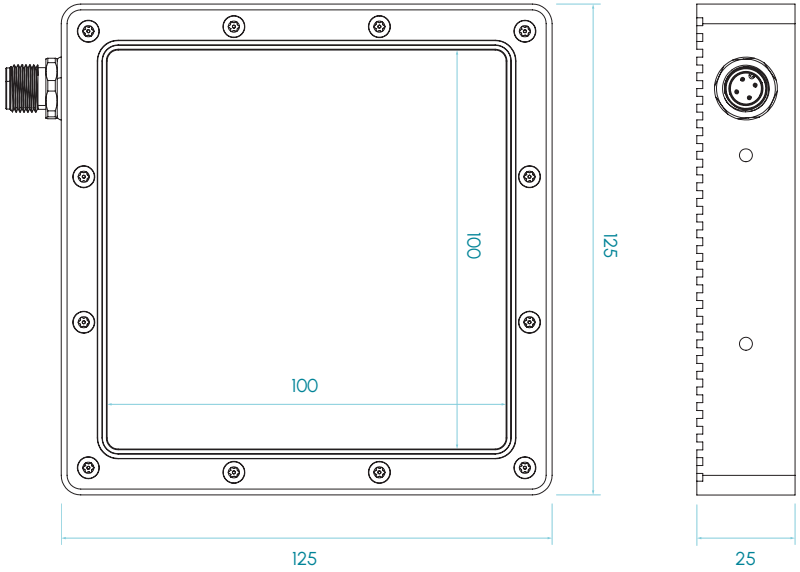
B00S1



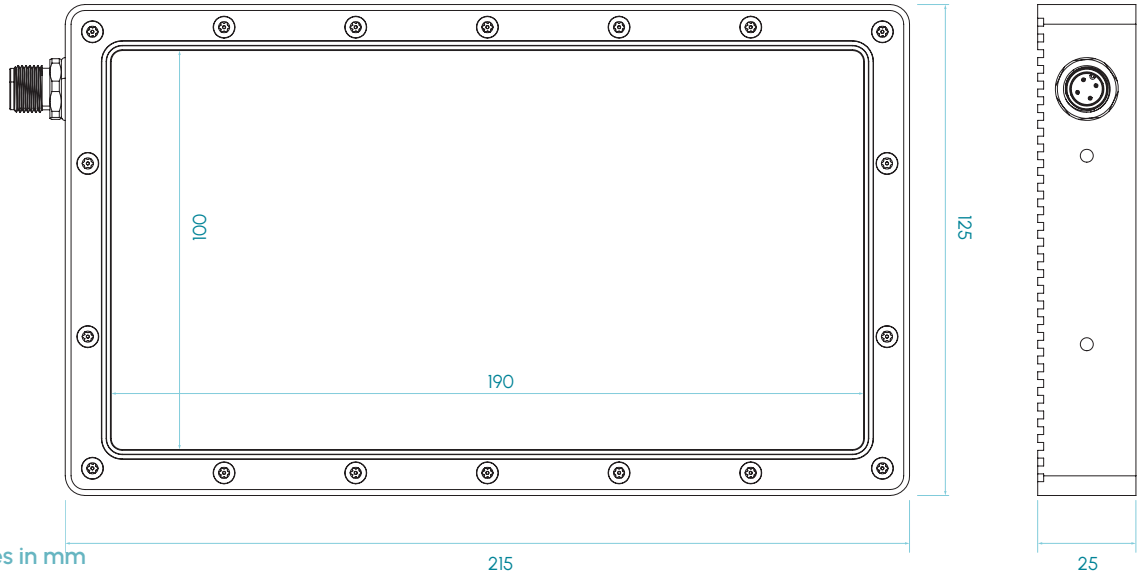
BD

Measures

BD1



BD2



Measures in mm

Selection guide

BD 5 Y

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized (1) (3)
- G - Ultradiffuse Polarized (1) (3)
- T - Transparent (2)

Wavelength
- D - White 5000K
- R - Red 625nm
- F - Infrarred 850nm
- U - Ultraviolet 365nm

Working mode
- P - Continuous
- Z - Master Continuous - Strobe

Size
- 1 - 125 mm x 125 mm
- 2 - 215 mm x 125 mm

(1) Polarized Light versions are only available exclusively for D and R wavelengths.
(2) Transparent cover is only available for U wavelength.
(3) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

BD

Model BD · White 5000K



5000K
WHITE

SEMIDIFFUSE 110°

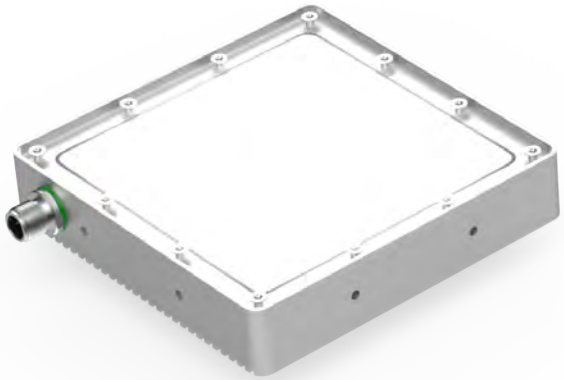
ULTRADIFFUSE 110°

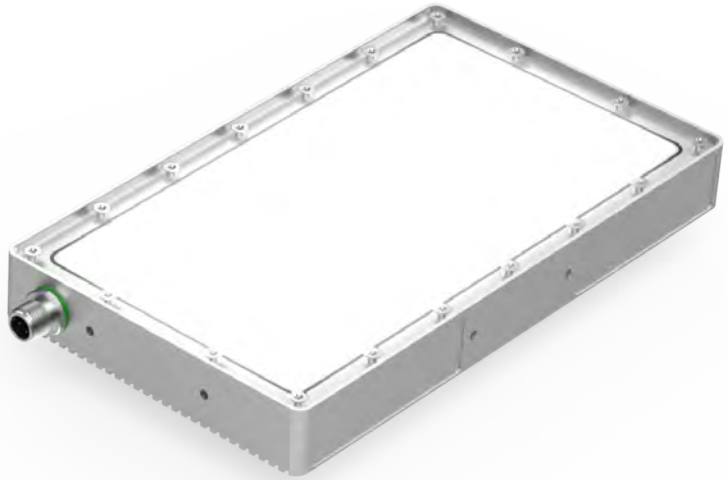
PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

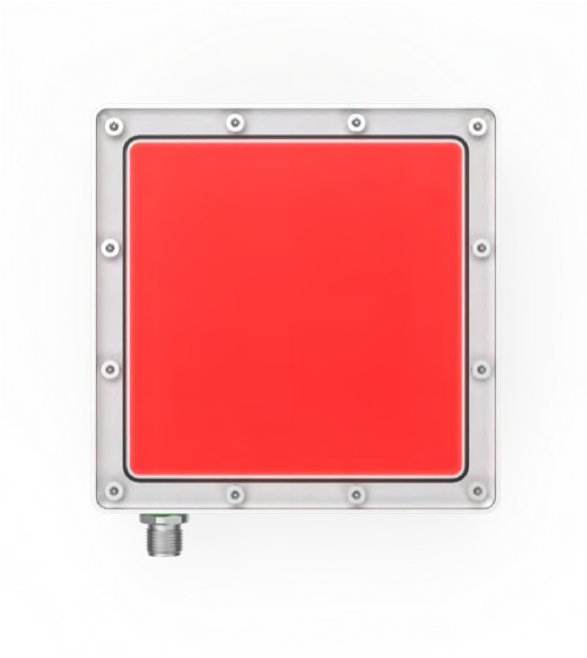
	Width (mm)	Length (mm)	Weight (g)	Luminous flux (4) (lm) CONT.	Luminous flux (4) (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
BD 1 ...	125	125	500	1.085	4.340	7,0	28,0
BD 2 ...	215	125	796	2.170	8.680	14,0	56,0





(4) Luminous flux (lm) is before diffuser.

Model BD · Red 625 nm



625nm
RED

SEMIDIFFUSE 110°

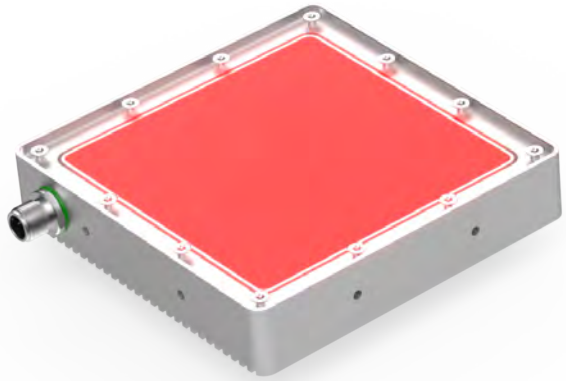
ULTRADIFFUSE 110°

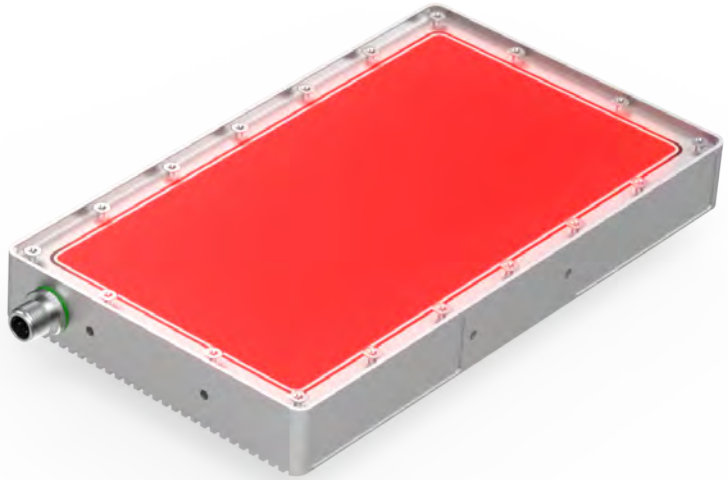
PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

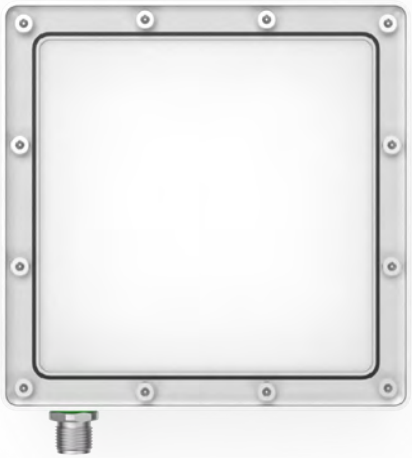
	Width (mm)	Length (mm)	Weight (g)	Luminous flux (4) (lm) CONT.	Luminous flux (4) (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
BD 1 ...	125	125	500	378	1.512	7,0	28,0
BD 2 ...	215	125	796	756	3.024	14,0	56,0

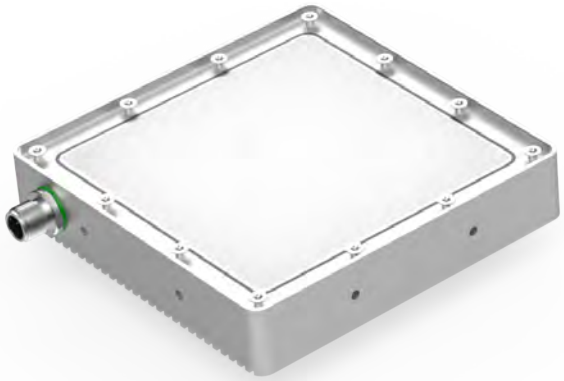




(4) Luminous flux (lm) is before diffuser.

Model BD · Infrared 850 nm





850nm
INFRARED



SEMIDIFFUSE
110°



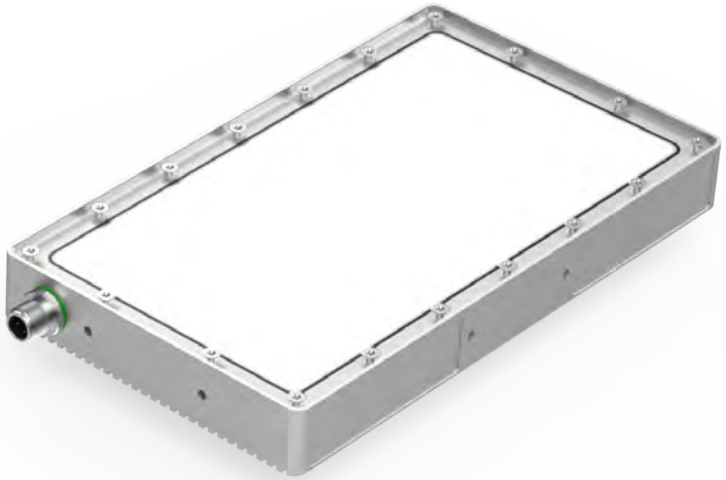
ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

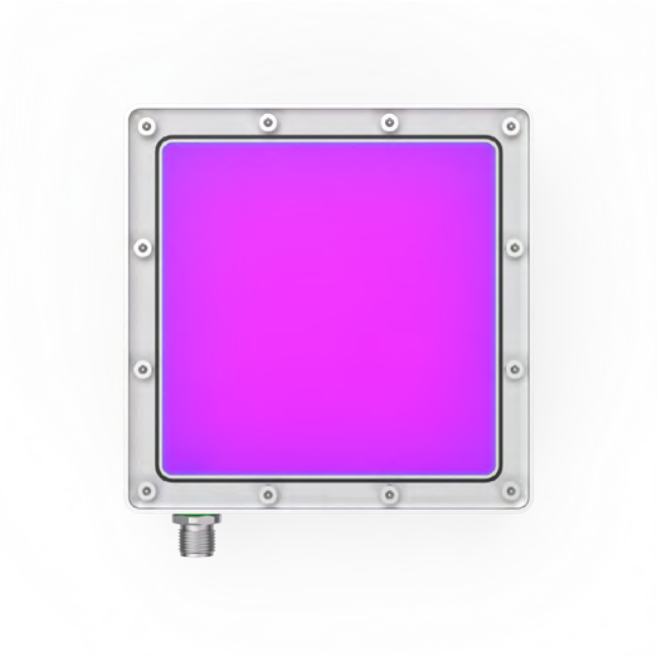
Table of characteristics

	Width (mm)	Length (mm)	Weight (g)	Radiated power [4] (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
BD 1 ...	125	125	500	2,8	11,2	7,0	28,0
BD 2 ...	215	125	796	5,6	22,3	14,0	56,0



(4) Radiated power (W) is before the diffuser.

Model BD · Ultraviolet 365 nm



365nm
ULTRAVIOLET

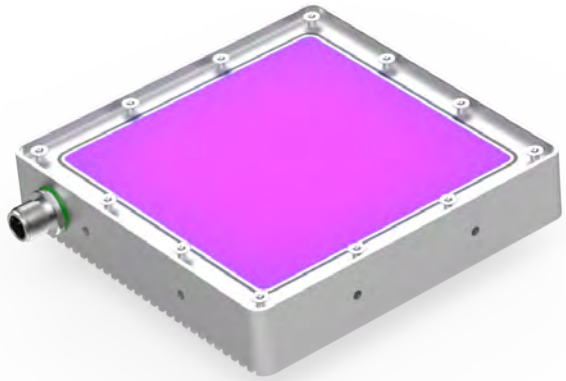
TRANSPARENT
110°

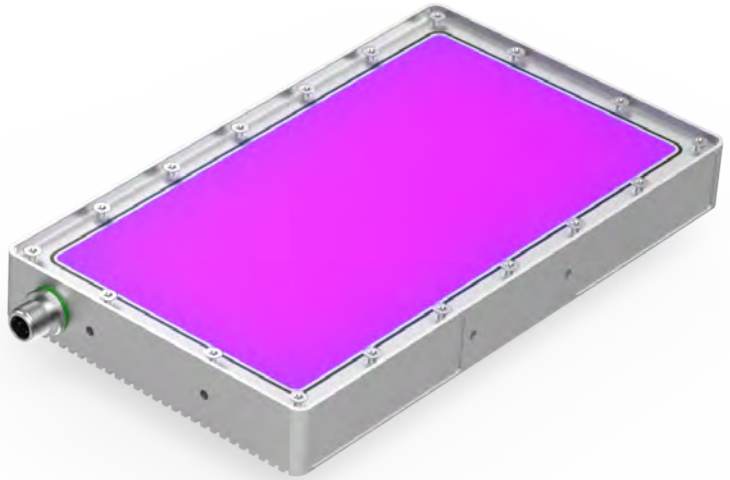
PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

15.000h
LIFESPAN

Table of characteristics

	Width (mm)	Length (mm)	Weight (g)	Radiated power [4] (W) CONT.	Radiated power [4] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
BD 1 ...	125	125	500	3,4	13,7	7,0	28,0
BD 2 ...	215	125	796	6,9	27,5	14,0	56,0





(4) Radiated power (W) is before the diffuser.

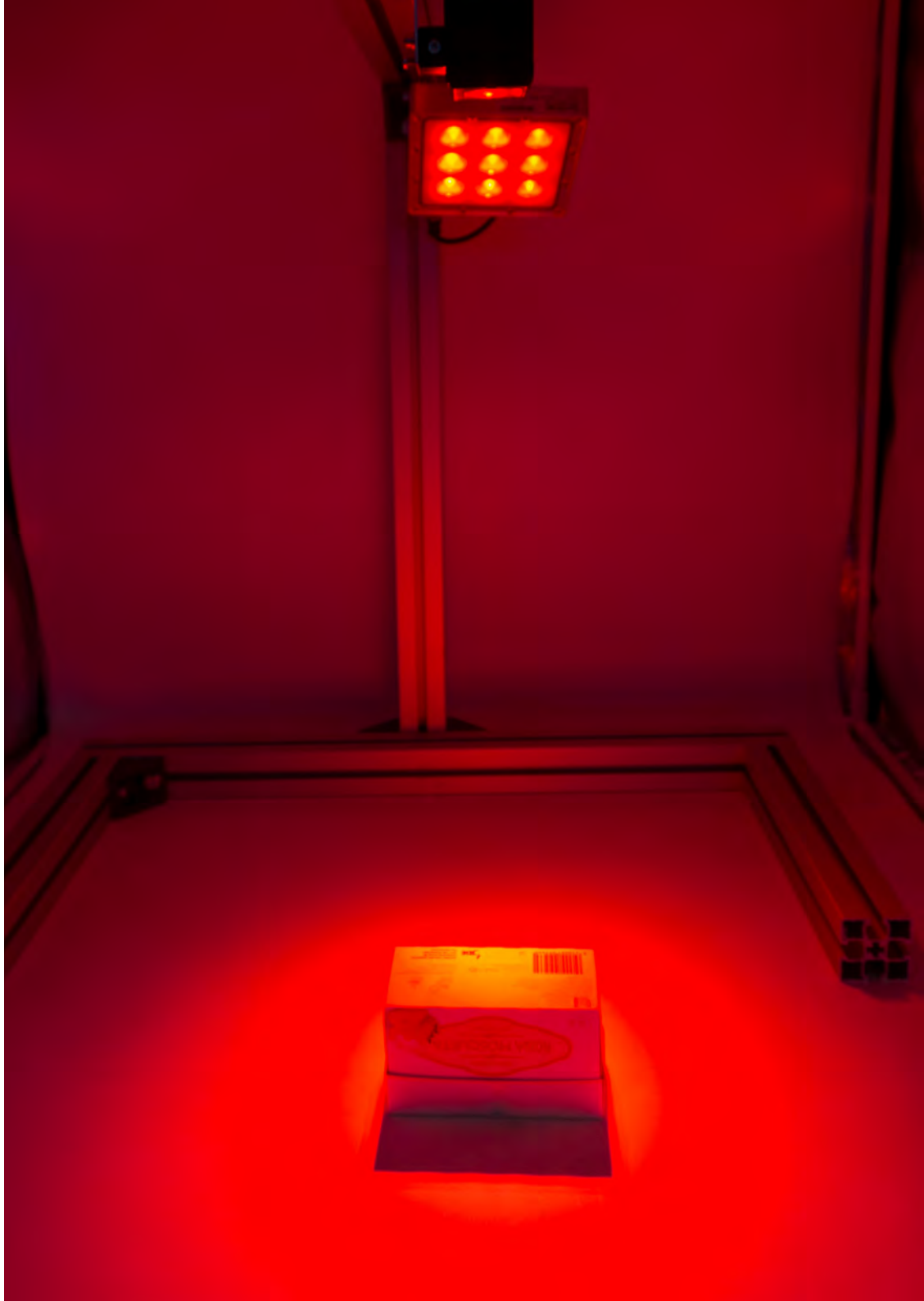
Spot Series
BS

Spot or BS luminaire is a type of product designed for focused or directional lighting, especially recommended for projects where the target surface is at a great distance from the camera.

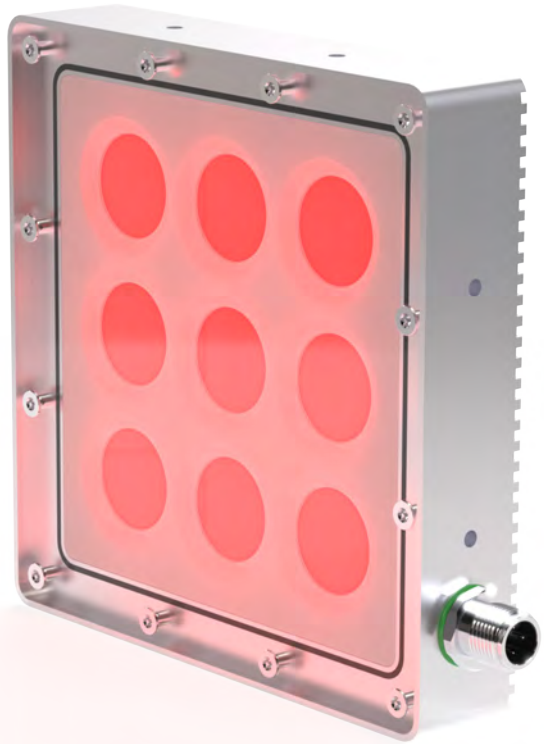
The luminaire is made of anodised aluminium and is IP65 waterproof. As for the optics, it has several options ranging from 15o to 40o in its version with a more extensive beam. As with the Backlight series, the anchorage designed for this series allows the product to be installed at 0o and 90o.

Designed with state-of-the-art electronics and high-power LEDs, together with the inclusion of an independent lens per LED, we achieve maximum efficiency and versatility, facilitating its use in projects where the focus of the light is key.

By means of this series it is possible to illuminate objects far away from the camera thanks to the possibility of focusing the light, its robustness and ease of connection make it a perfect luminaire for all types of artificial vision projects.



Spot · BS Series



24 V
DC

NOT
CASCADABLE

IP65

M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 3x

INTEGRATED
CONTROLLER

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 50 ms
Max. working cycle	Continuous = 1	Strobe = 1/4
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared	5000 K 620 nm 850 nm
Beam angle	Transparent	6° 15° 30°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Lenses material	Methacrylate	
Connection types	M12A connector	
Standards	RoHs, CE	

Connection

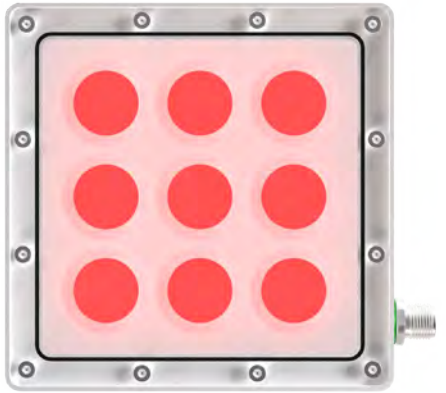
M12A input	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



Fixings

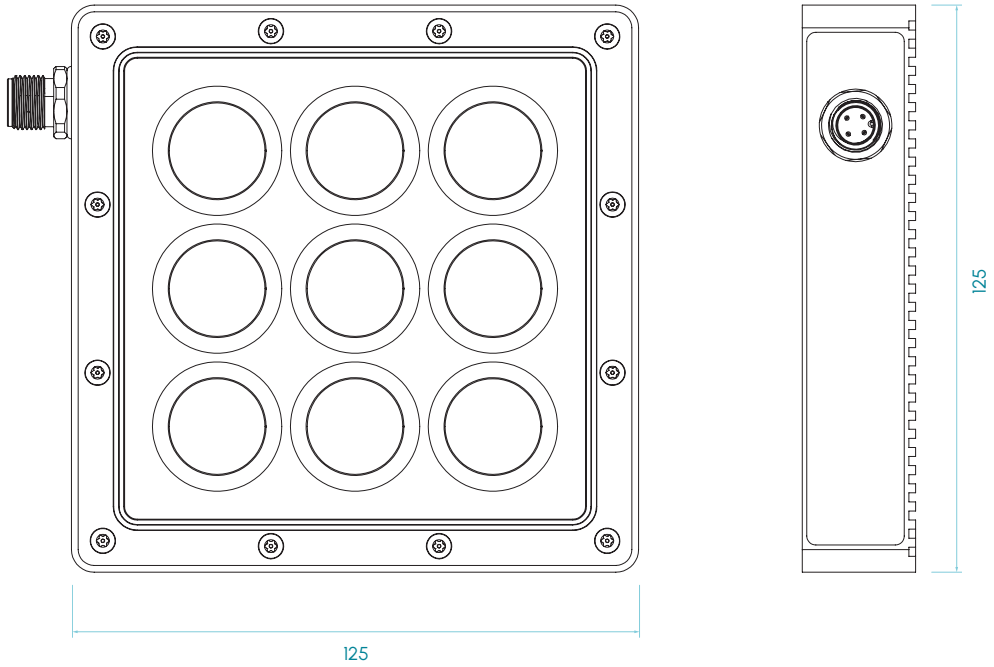
B00S1



BS

Measures

BS 1



Selection guide

BS 1 5 Y

Beam angle
- Q - 6°
- V - 15°
- S - 30°

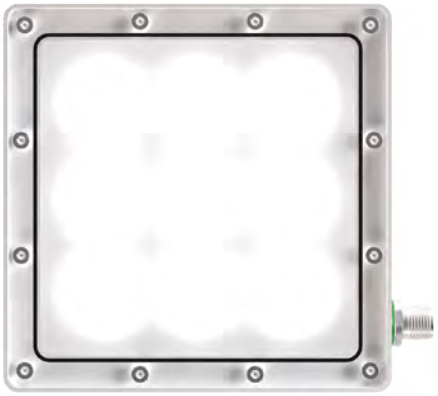
Wavelength
- D - White 5000K
- R - Red 620nm
- F - Infrared 850nm

Working mode
- P - Power
- Z - Master Power - Strobe

Measures in mm

BS

Model BS · White 5000K





5000K
WHITE

TRANSPARENT 6°

TRANSPARENT 15°

TRANSPARENT 30°

PHOTOBIOLOGICAL RISK
RG1 - LOW

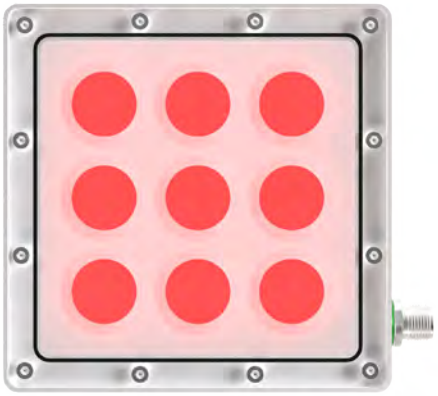
60.000h
LIFESPAN

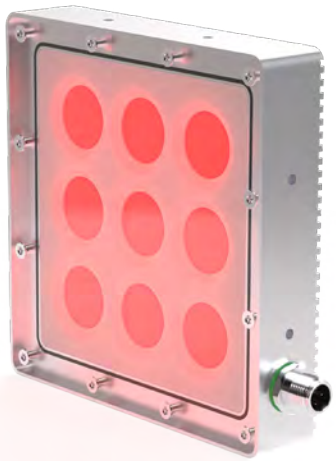
Table of characteristics

	Width (mm)	Length (mm)	Weight (g)	Luminous flux (1) (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
BS 1 ...	125	125	500	1.863	5.616	11,5	48,0

(1) The luminous flux (lm) is before the lenses.

Model BS · Red 620 nm





620nm
RED

TRANSPARENT 6°

TRANSPARENT 15°

TRANSPARENT 30°

PHOTOBIOLOGICAL RISK
RG1 - LOW

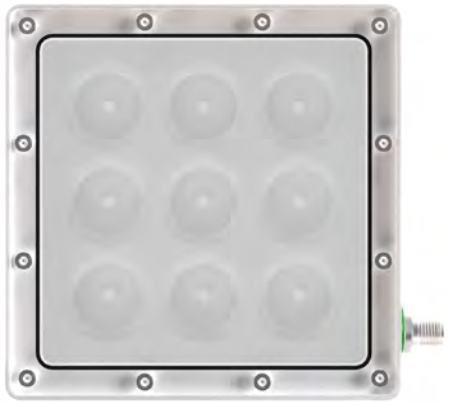
60.000h
LIFESPAN

Table of characteristics

	Width	Length	Weight	Luminous flux [1] (lm)		Power consumed (W)	
	(mm)	(mm)	(g)	CONT.	STROBE	CONT.	STROBE
BS 1 ...	125	125	500	320	950	9,4	41,3

(1) The luminous flux (lm) is before the lenses.

Model BS · Infrared 850 nm





850nm
INFRARED


TRANSPARENT
6°


TRANSPARENT
15°


TRANSPARENT
30°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Width (mm)	Length (mm)	Weight (g)	Radiated power [1] (mW) CONT.	Radiated power [1] (mW) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
BS 1 ...	125	125	500	5.388	16.179	7,9	30,7

(1) The radiated power (mW) is before the lenses.

Ring Series
RD

Ring or RD series is a luminaire designed for applications where direct illumination is required and space is limited. Built by CNC machine, in a single anodized aluminum luminaire body, it is the perfect complement for machine vision cameras.

As for the anchorage, it has the BS001 bracket, the same used in other series, which allows a robust and vibration-free fixation.

Inside it has an electronics specially designed for machine vision, which eliminates the flickering effect and preserves the luminous flux throughout the life of the product. The wavelength of the LED is available in White, Red, Infrared, Ultraviolet and RGB.

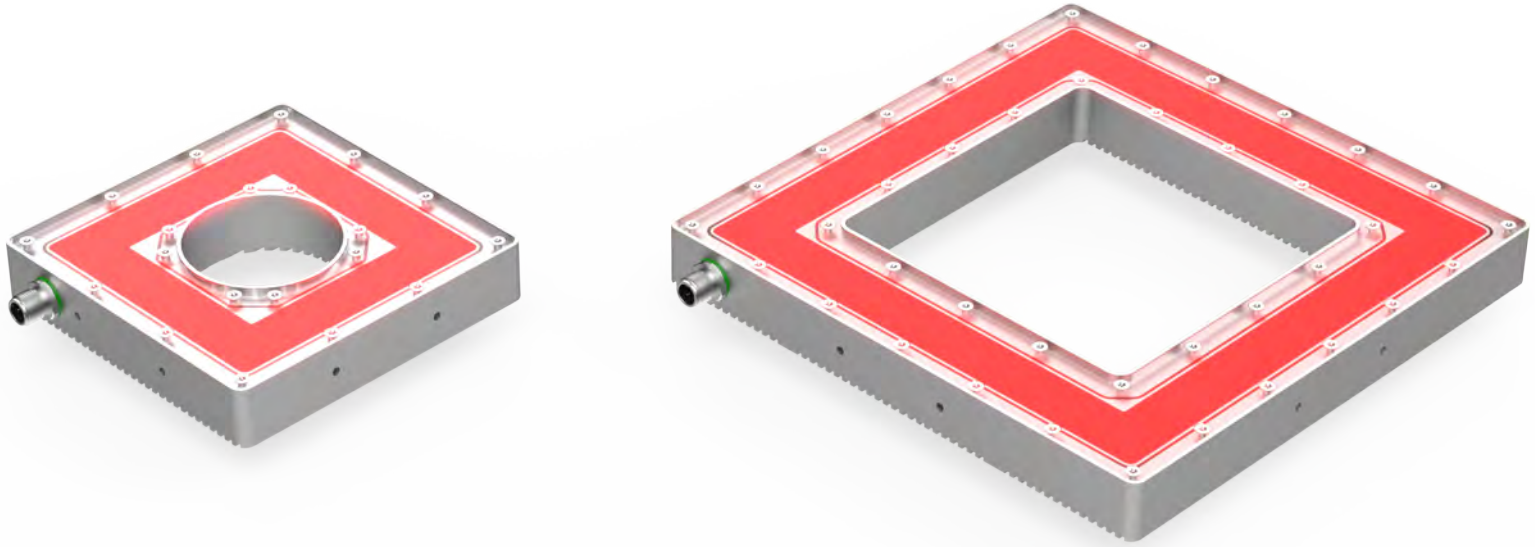
This type of luminaire is widely used in robotics, where, because the robot is in motion, it is recommended that the devices have the smallest possible dimensions to avoid possible mechanical interference. In certain production lines, due to the limited space available, it is necessary to use compact lighting.

Analyzing the available optics of this family, we find the ultra-diffuse model, which ensures maximum homogeneity and the semi-diffuse, which allows to illuminate more distant surfaces or to focus more on the area of interest. In the case of shiny surfaces, this product range can be ordered with polarizing filter included.

As with other series, this luminaire has an industrial M12 power and data supply, which ensures the availability of wiring and ease of connection.



Ring · RD Series



24 V DC

NOT CASCADABLE

IP65

M12A

MACHINE VISION

CONTINUOUS 1x

STROBE 4x

INTEGRATED CONTROLLER

POLARIZED

36 MONTHS

EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparent Semidiffuse Ultradiffuse	110° 110° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Diffuser material	Methacrylate	
Connection types	M12A connector	
Standards	RoHs, CE	

RD

Connection

M12A input	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



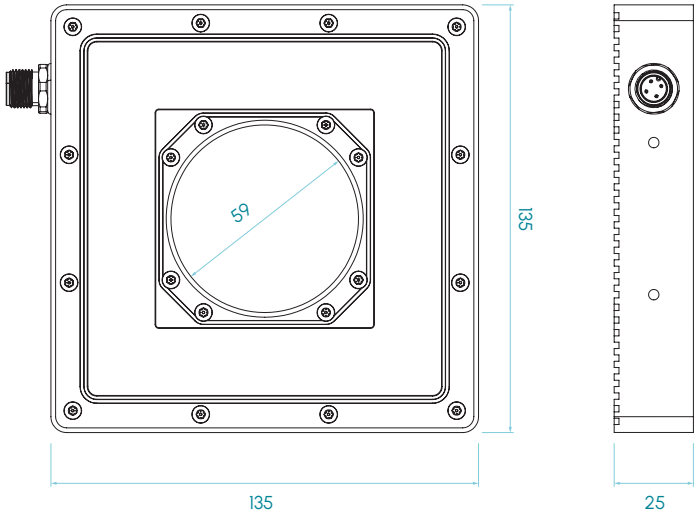
Fixings

B00S1

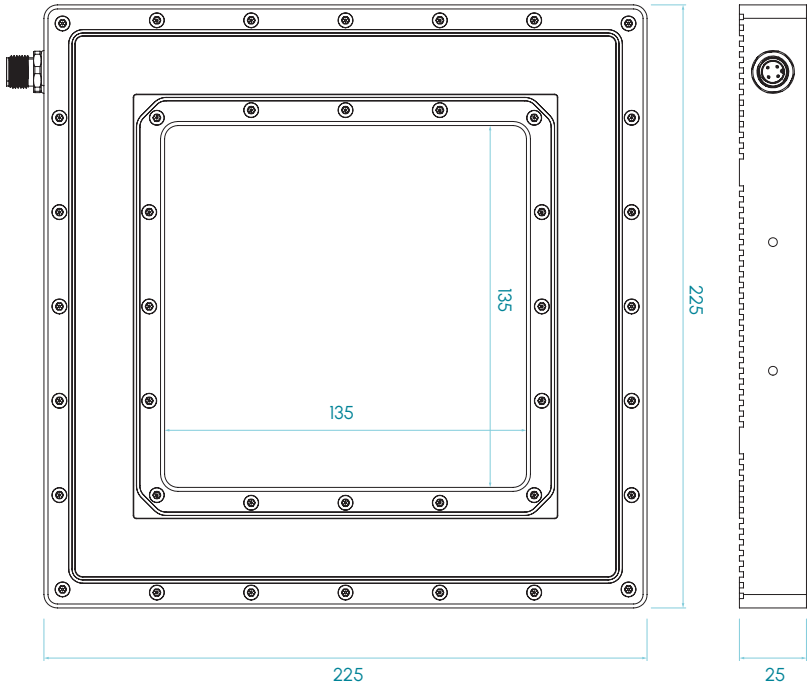


Measures

RD1



RD2



Measures in mm

RD

Selection guide

RD 5 Y

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse Polarized (1) (3)
- G - Ultradiffuse Polarized (1) (3)
- T - Transparent (2)

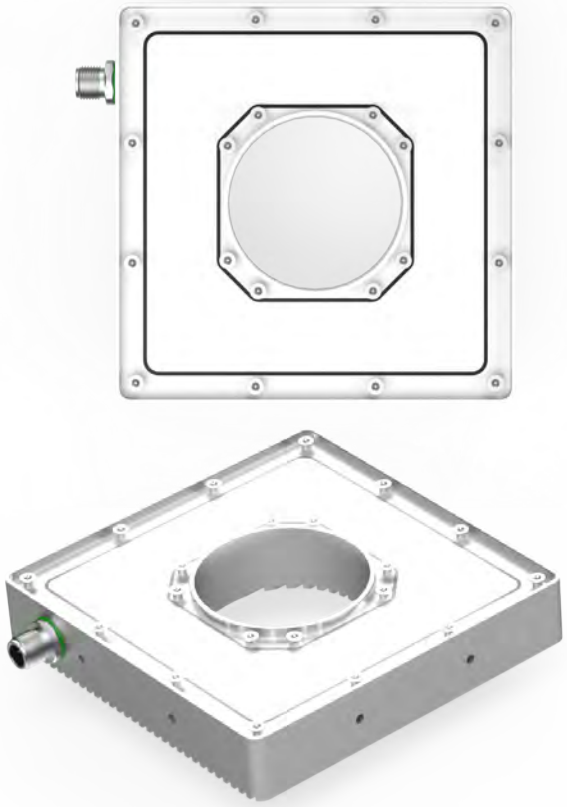
Wavelength
- D - White 5000K
- R - Red 625nm
- F - Infrarred 850nm
- U - Ultraviolet 365nm

Working mode
- P - Power
- Z - Master Power - Strobe

Size
- 1 - 135 mm x 135 mm
- 2 - 225 mm x 225 mm

(1) Polarized Light versions are only available exclusively for D and R wavelengths.
(2) Transparent cover is only available for U wavelength.
(3) The use of a polarizing filter in continuous operation and white lighting is not recommended due to fast degradation of the filter.

Model RD · White 5000K



5000K
WHITE

SEMIDIFFUSE 110°

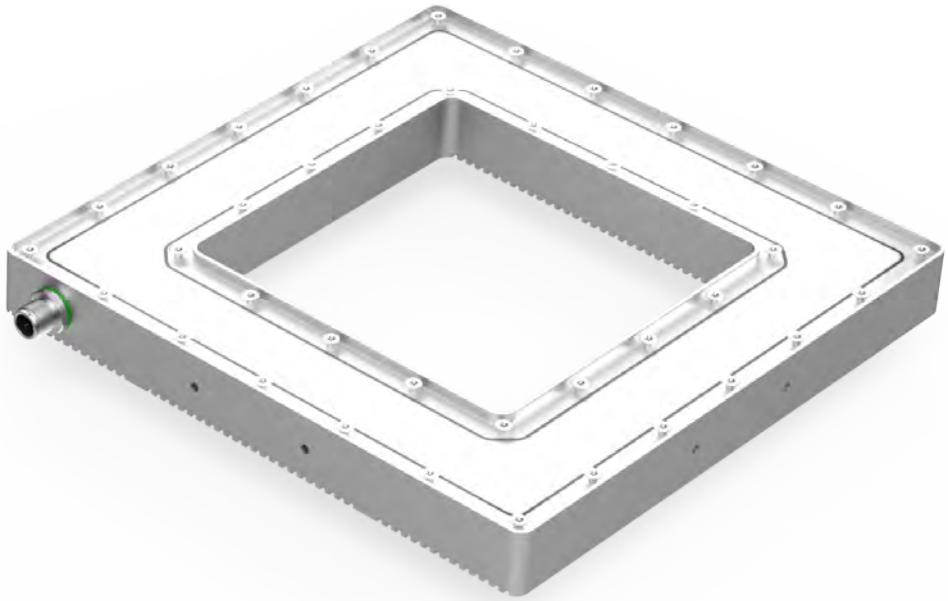
ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

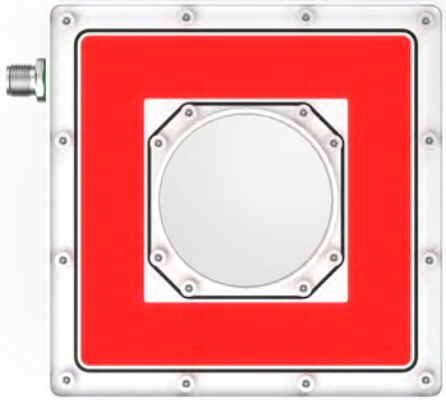
Table of characteristics

	Width	Length	Weight	Luminous flux [4] (lm)		Power consumed (W)	
	(mm)	(mm)	(g)	CONT.	STROBE	CONT.	STROBE
RD 1 ...	135	135	615	1.216	4.864	7,6	30,4
RD 2 ...	225	225	1.276	2.432	9.728	15,2	60,8



(4) The luminous flux (lm) is before the diffuser.

Model RD · Red 625 nm



625nm
RED

SEMIDIFFUSE
110°

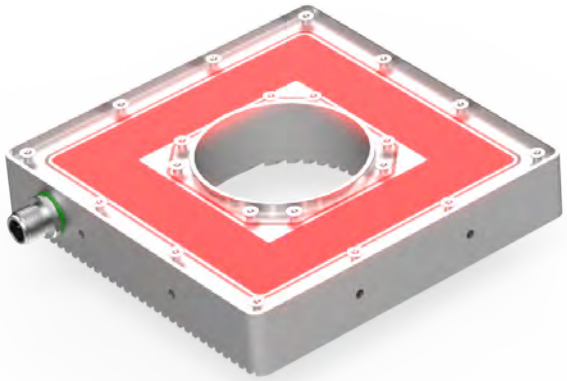
ULTRADIFFUSE
110°

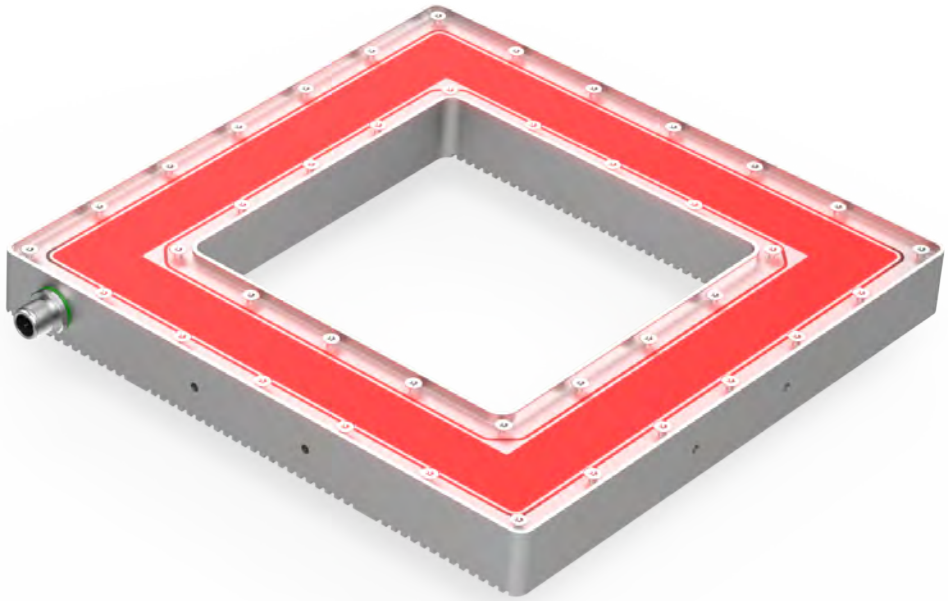
PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

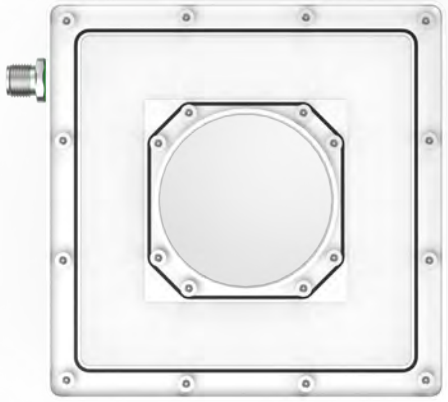
	Width (mm)	Length (mm)	Weight (g)	Luminous flux [4] (lm) CONT.	Luminous flux [4] (lm) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
RD 1 ...	135	135	615	388	1.550	7,6	30,4
RD 2 ...	225	225	1.276	775	3.101	15,2	60,8





(4) The luminous flux (lm) is before the diffuser.

Model RD · Infrared 850 nm



850nm
INFRARED

SEMIDIFFUSE
110°

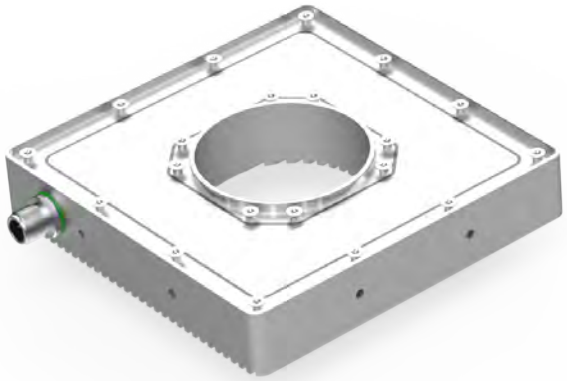
ULTRADIFFUSE
110°

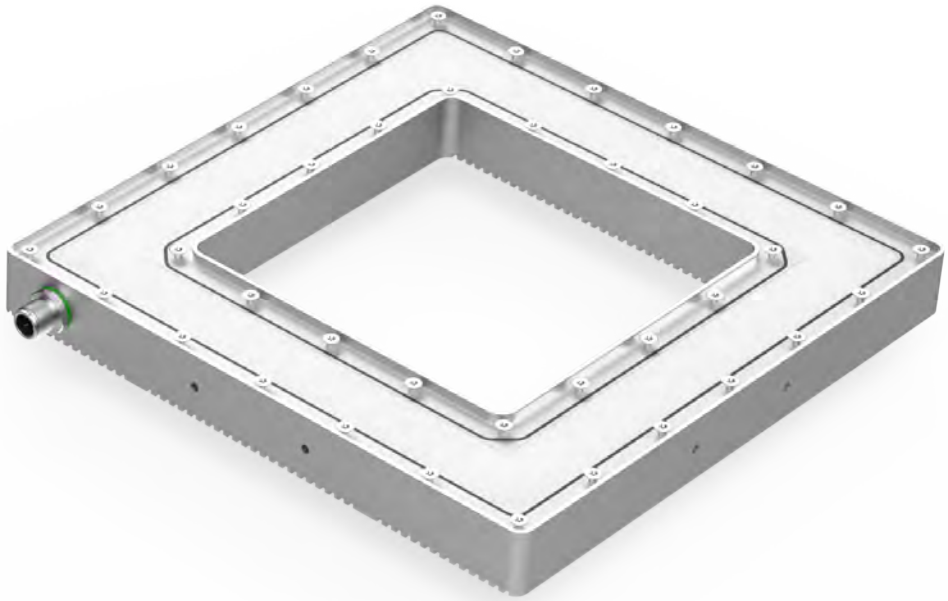
PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

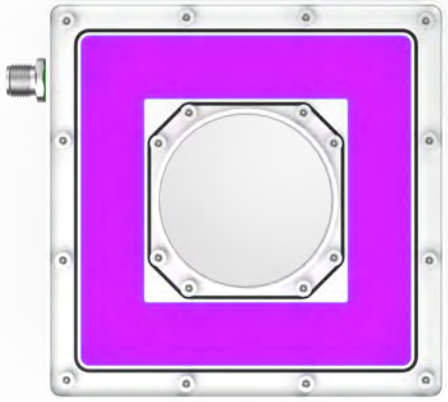
	Width (mm)	Length (mm)	Weight (g)	Radiated power [4] (W) CONT.	Radiated power [4] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
RD 1 ...	135	135	615	1,6	6,4	4,0	16,0
RD 2 ...	225	225	1.276	3,2	12,8	8,0	32,0





(4) The radiated power (W) is before the diffuser.

Model RD · Ultraviolet 365 nm



365nm
ULTRAVIOLET

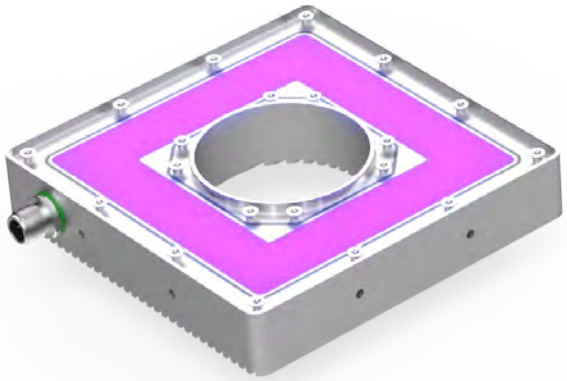
TRANSPARENT
110°

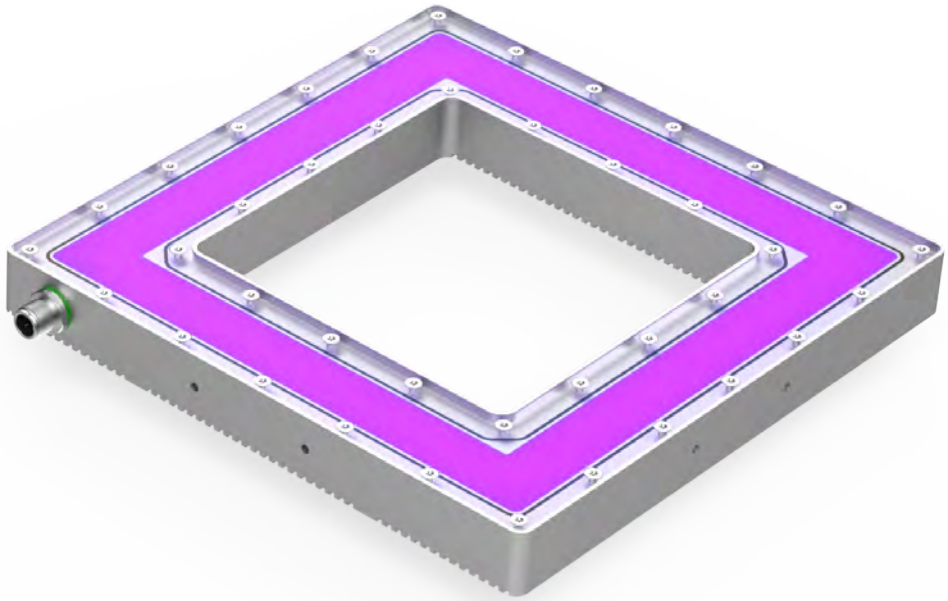
PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

15.000h
LIFESPAN

Table of characteristics

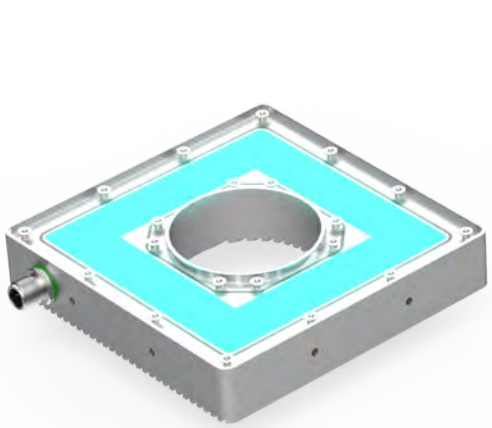
	Width (mm)	Length (mm)	Weight (g)	Radiated power [4] (W) CONT.	Radiated power [4] (W) STROBE	Power consumed (W) CONT.	Power consumed (W) STROBE
RD 1 ...	135	135	615	3,7	14,9	7,6	30,4
RD 2 ...	225	225	1.276	7,5	29,9	15,2	60,8

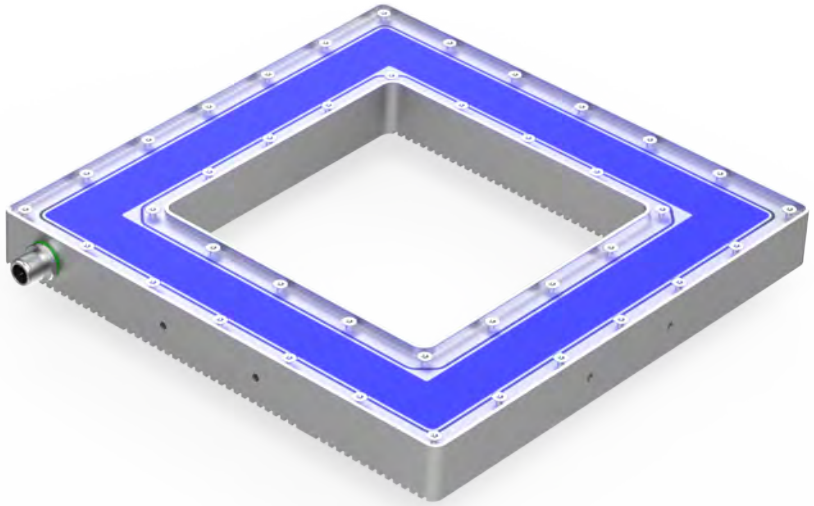




(4) The radiated power (W) is before the diffuser.

Ring · RD Series RGB





24 V DC

PWM DIMABLE

NOT CASCADABLE

M12A

RGB

POLARIZED

MACHINE VISION

SIGNALING

IP65

CLASS III

36 MONTHS

EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	110° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Diffuser material	Methacrylate	
Connection types	M12A connector	
Standards	RoHs, CE	

Connection

M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male



Fixings

B00S1

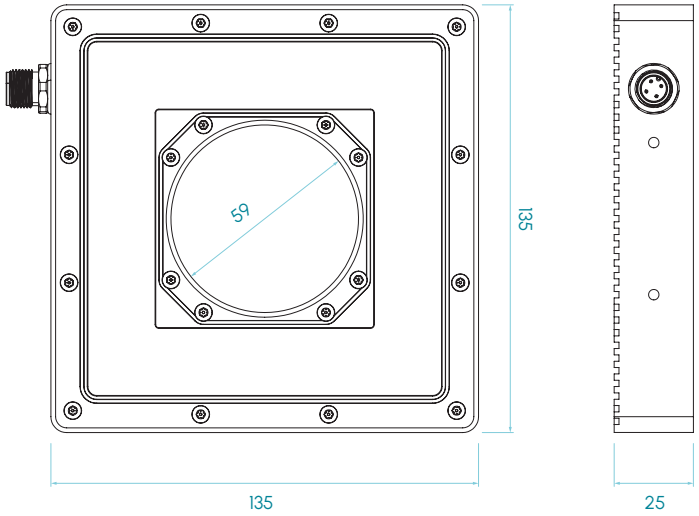


RD

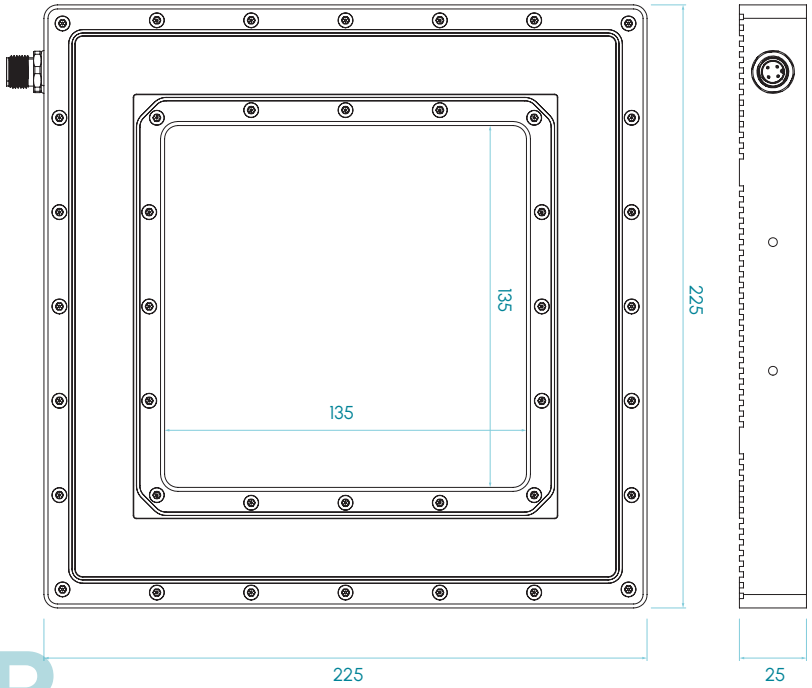
RGB

Measures

RD1



RD2



Measures in mm

Selection guide

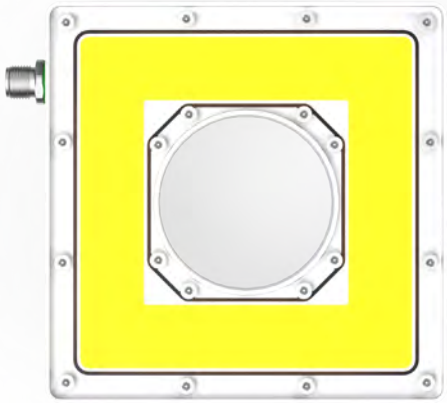
RD P Q 5 Y

Diffuser
- C - Semidiffuse
- U - Ultradiffuse
- M - Semidiffuse polarized
- G - Ultradiffuse polarized

Size
- 1 - 135 mm x 135 mm
- 2 - 225 mm x 225 mm

RGB

Model RD · RGB



RGB

SEMIDIFFUSE 110°

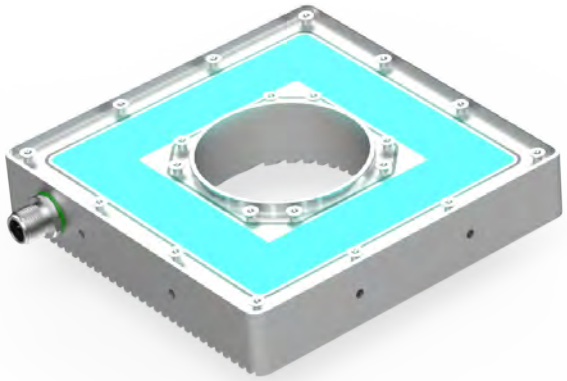
ULTRADIFFUSE 110°

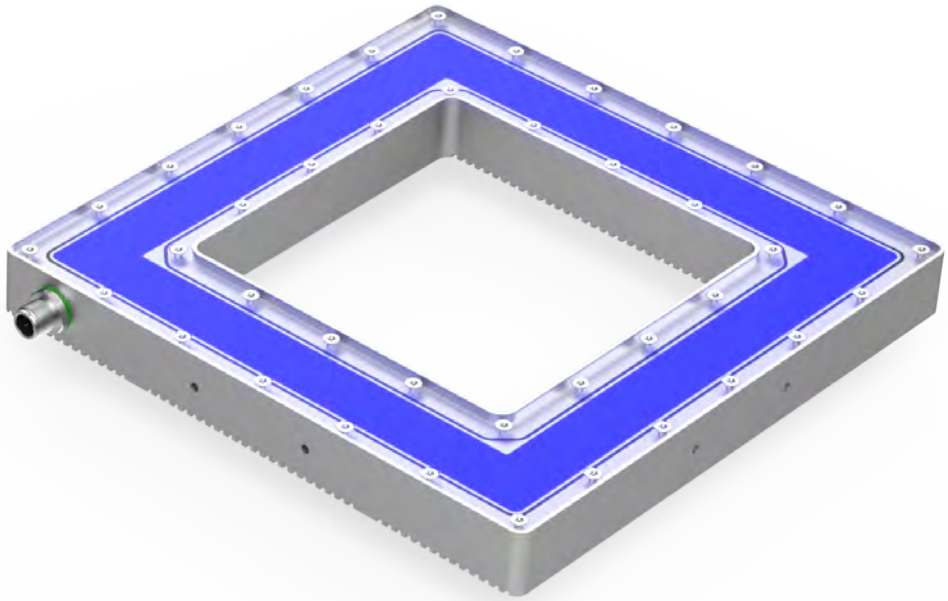
PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Luminous flux (1) (lm) R	G	B	Power consumed (W)
RD 1...	135	135	615	38	103	29	7,2
RD 2...	225	225	1.276	77	206	58	14,4





RGB

(1) el flujo luminoso (lm) es antes de difusor.

Dome Series
DD

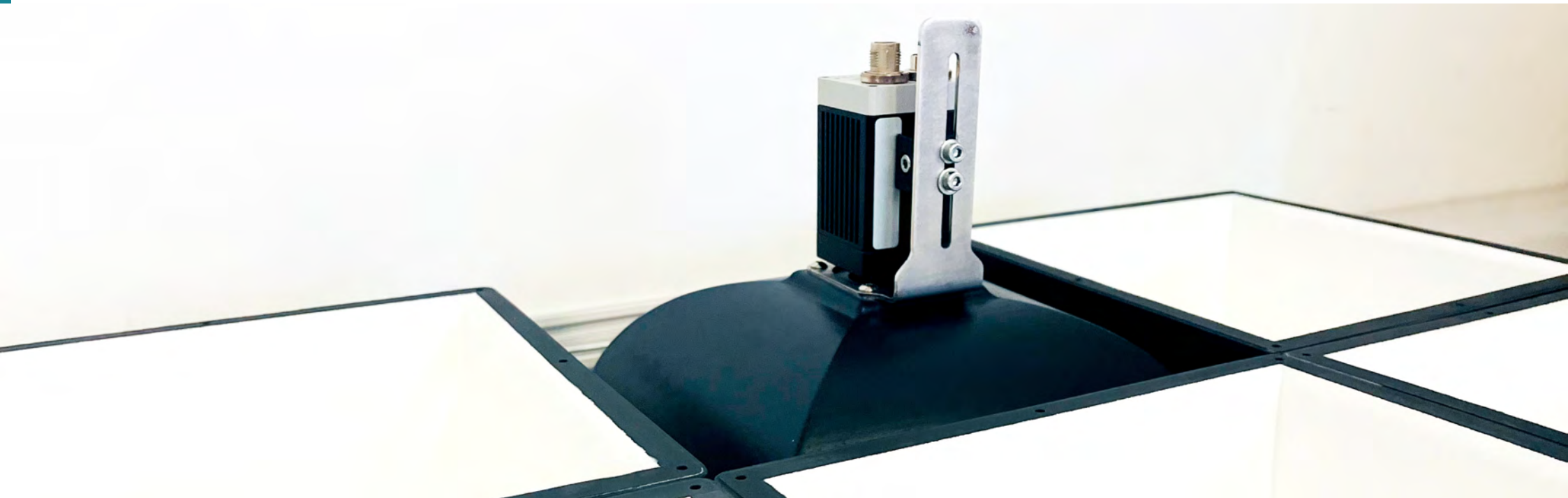
DD or DOME series consists of a hood that acts as a light diffuser, illuminating from multiple angles in a diffuse manner, allowing the lighting to be evenly distributed. In this way, we produce light on the four inner sides of the dome to evenly bathe the workspace.

The luminaire can be anchored to the chassis by means of the B00S1 anchorage using either the side or the bottom of the luminaire as a support point.

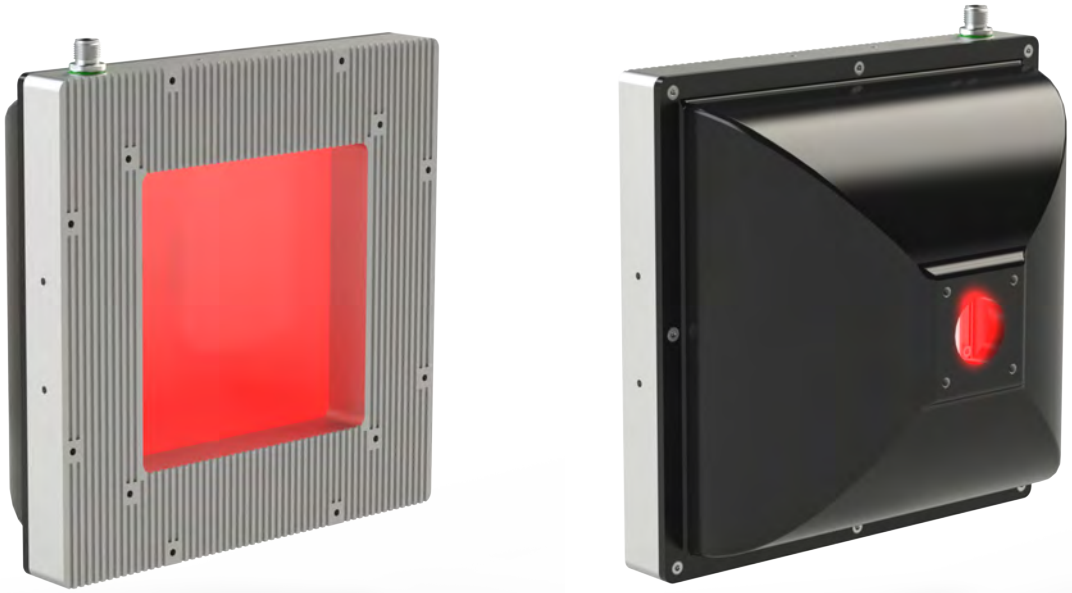
In addition, we provide a solution for camera mounting with an "L"-shaped anchorage and a coliseum to facilitate the installation of most smart cameras on the market.

This type of luminaire is especially recommended for the illumination of highly reflective elements, such as metallic or wet elements, to avoid unwanted glare.

It is IP65 watertight throughout the range and is powered by a standard 4-wire M12 connector.



Dome · DD Series



24 V
DC

NOT
CASCADABLE

IP65

M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 4x

INTEGRATED
CONTROLLER

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Continuous = unlimited	Strobe = 10 ms
Max. working cycle	Continuous = 1	Strobe = 1/6
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared	5000 K 625 nm 850 nm
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Diffuser material	Methacrylate	
Connection types	M12A connector	
Standards	RoHs, CE	

Connection

M12A input	Continuous	Master Continuous - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Trigger NPN
Pin 3 - Blue	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP

M12A Male



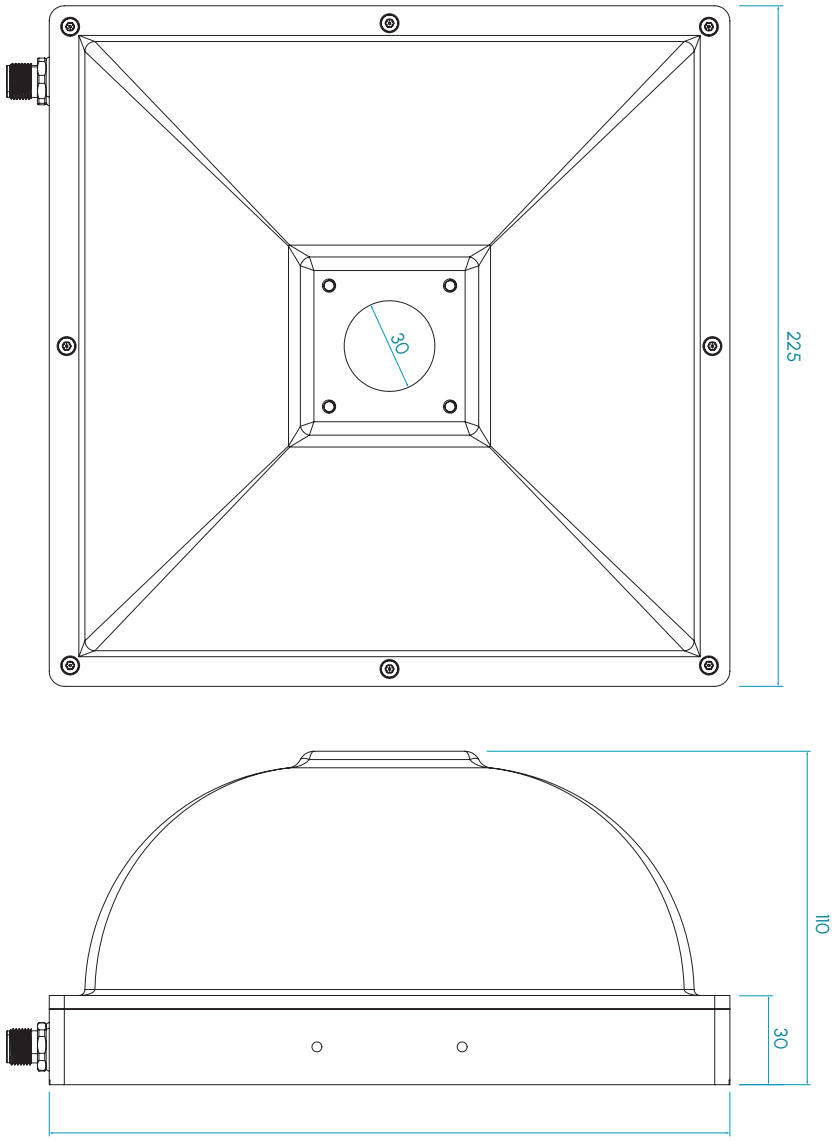
Fixings

B00S1



DD

Measures



Measures in mm

Selection guide

DD2 5 T Y

Wavelength

- D - White 5000K
- R - Red 625nm
- F - Infrared 850nm

Working mode

- P - Power
- Z - Master Power - Strobe

DD

Model DD · White 5000K





5000K
WHITE

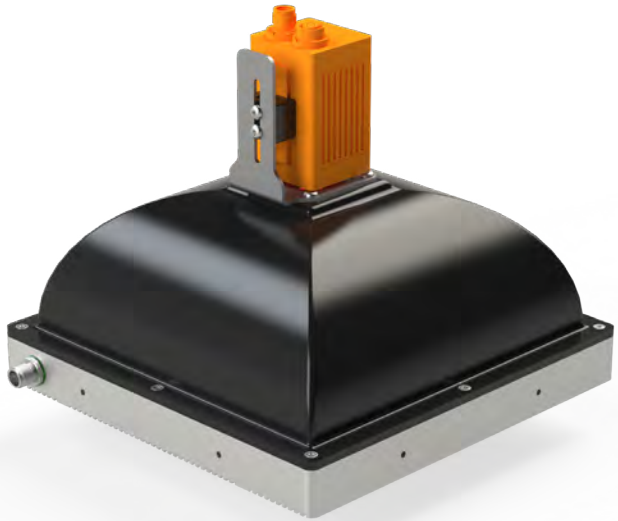
TRANSPARENT

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Luminous flux [1] (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
DD 2 ...	225	225	1.760	2.432	9.728	15,2	60,8



(1) The luminous flux (lm) is before the diffuser.

Model DD · Red 625 nm





625nm
RED

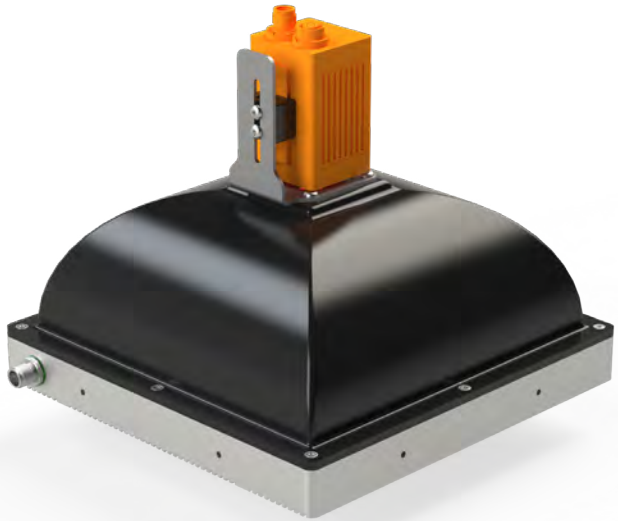
TRANSPARENT

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Luminous flux [1] (lm)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
DD 2 ...	225	225	1.760	775	3.101	15,2	60,8



(1) The luminous flux (lm) is before the diffuser.

Model DD · Infrared 850 nm





850nm
INFRARED

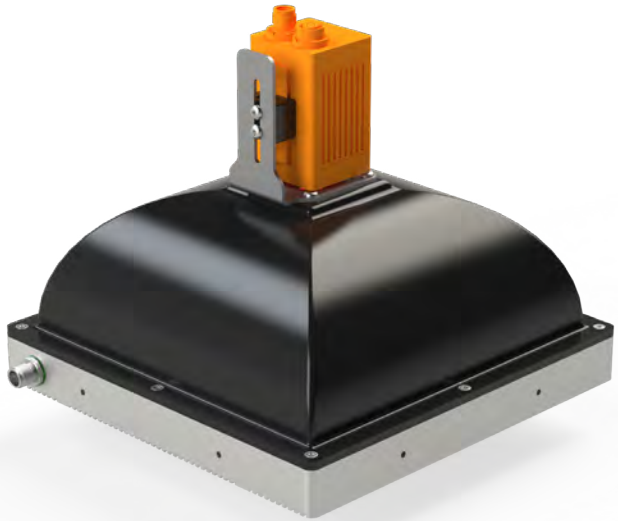
TRANSPARENT

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

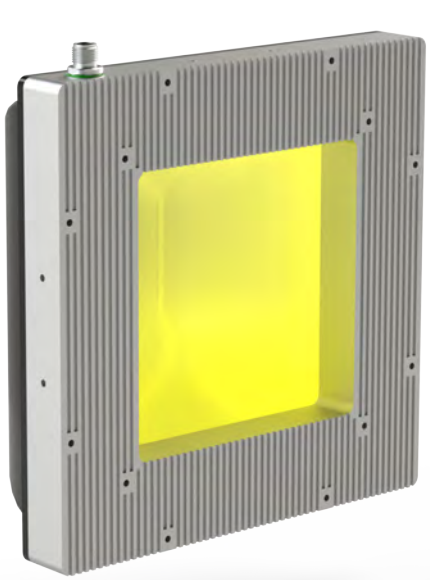
Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Radiated power [1] (W)		Power consumed (W)	
				CONT.	STROBE	CONT.	STROBE
DD 2 ...	225	225	1.760	3,2	12,8	8,0	32,0



(1) The radiated power (W) is before the diffuser.

Dome · DD Series RGB





24 V DC

PWM DIMABLE

NOT CASCADABLE

M12A

RGB

MACHINE VISION

SIGNALING

IP65

CLASS III

36 MONTHS

EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positive PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Diffuser material	Methacrylate	
Connection types	M12A connector	
Standards	RoHs, CE	

Connection

M12A input - Cable	Power
Pin 1 - Brown	+24 Vdc (Green)
Pin 2 - White	+24 Vdc (Blue)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (Red)

M12A Male



Fixings

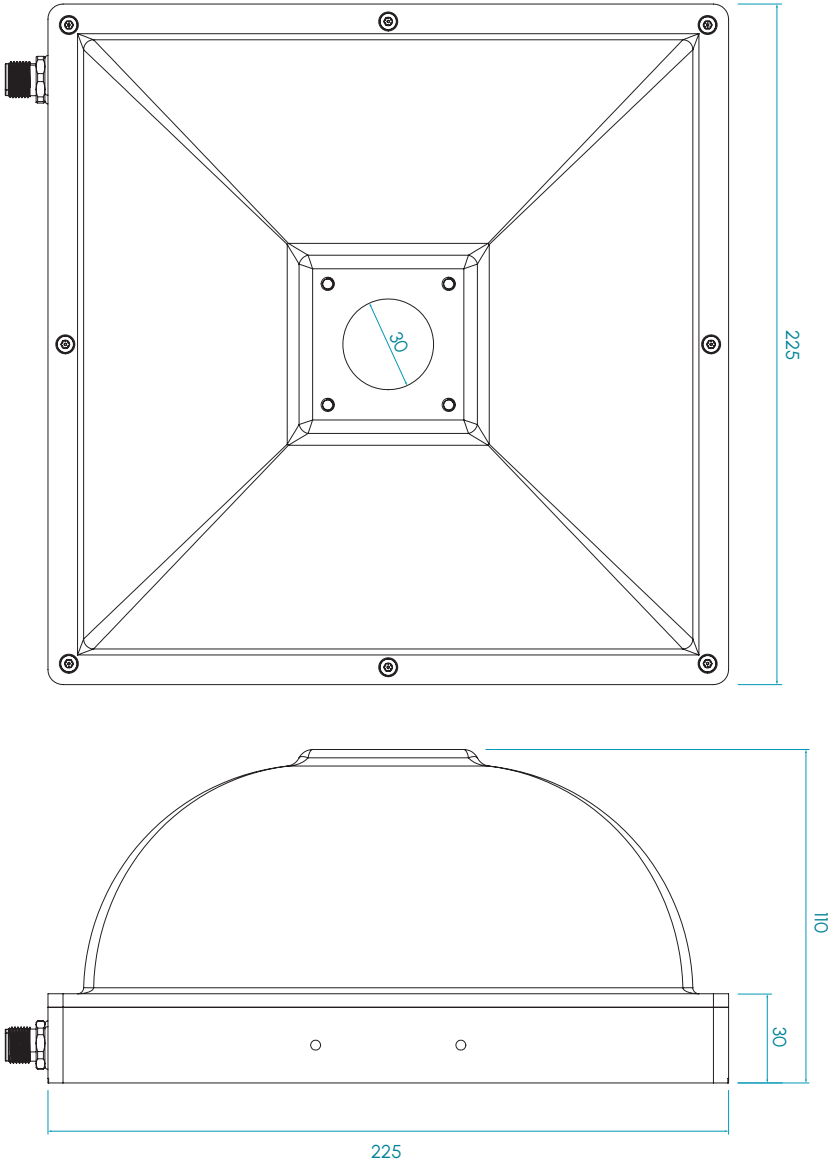
B00S1



DD

RGB

Measures



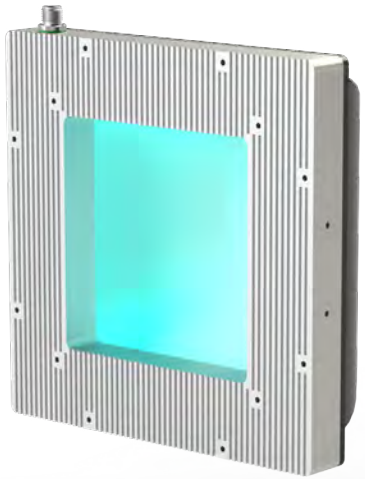
Measures in mm

RGB

Selection guide

DD2 P Q 5 T Y

Model DD · RGB





RGB

RGB

TRANSPARENT

PHOTOBIOLOGICAL RISK

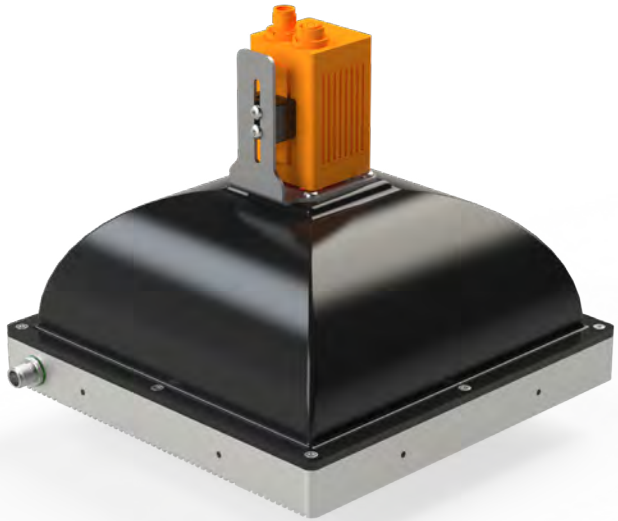
RG1 - LOW

60.000h

LIFESPAN

Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Luminous flux (1) (lm) R	G	B	Power consumed (W)
DD2	225	225	1.760	77	206	58	14,4



(1) The luminous flux (lm) is before the diffuser.

Multishot Series
MP4D

Multishot is a luminaire with different sectors lit sequentially to take photographs with lighting in different positions, allowing us to obtain details that we would not be able to obtain with fixed lighting. This lighting will enhance the contours and imperfections of the piece we want to detect.

In this type of lighting, the camera will take four photos with four different illuminations and then make a composition of these, which will allow us to obtain an image with a high level of detail.

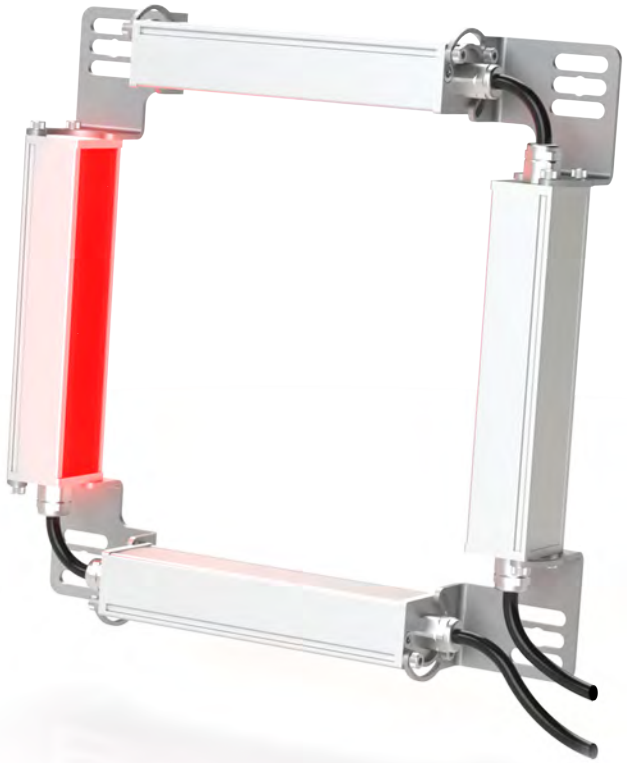
At Lumher we have achieved a luminaire that is easy to install for the operator, where he will have a connection box to make the wiring work easier, and will also help to orientate and test the luminaires separately.

Available in four wavelengths, white, red, infrared and ultraviolet, the multishot will play an important role in your vision applications where detail matters.

Commonly used in the detection of embossed or engraved text on non-uniform surfaces or the same material, with the multishot it will be possible to perform that detection, where a camera and normal illumination could not.



Multishot · P4DM Series



24 V
DC

NOT
CASCADABLE

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x

IP40
IP65

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP / NPN	
Max. on time	Power = unlimited	
Max. working cycle	Power = 1	
Max. consumption Trigger input	1,5 mA	
Max. number of cascadable modules	This luminaire is not cascadable	
Wavelength	White Red Infrared Ultraviolet	5000 K 625 nm 850 nm 365 nm
Beam angle	Transparent Semidiffuse Ultradiffuse	55° 60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate / Methacrylate	
Connection types	Cable with M12A connector	
Standards	RoHs, CE	

P4DM

Connection

Entry 1 M12A - Cable	Power
Pin 1 - Brown	+24 Vdc
Pin 2 - White	Trigger - section 1
Pin 3 - Blue	0 Vdc
Pin 4 - Black	Trigger - section 2

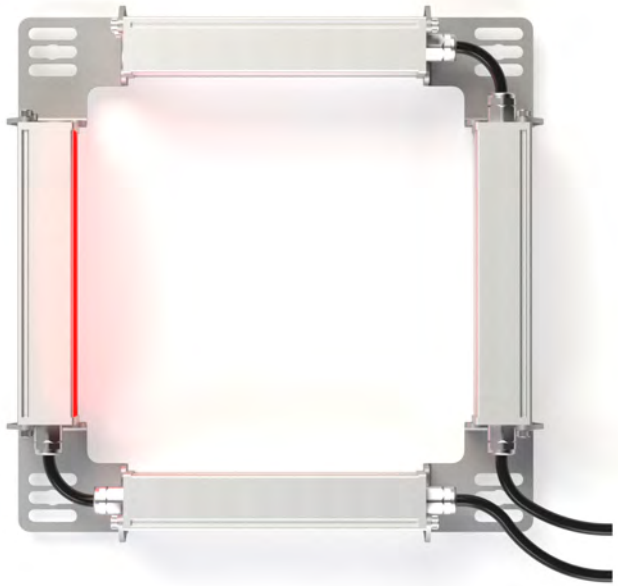
Entry 2 M12A - Cable	Power
Pin 1 - Brown	+24 Vdc
Pin 2 - White	Trigger - section 3
Pin 3 - Blue	0 Vdc
Pin 4 - Black	Trigger - section 4

M12A Male



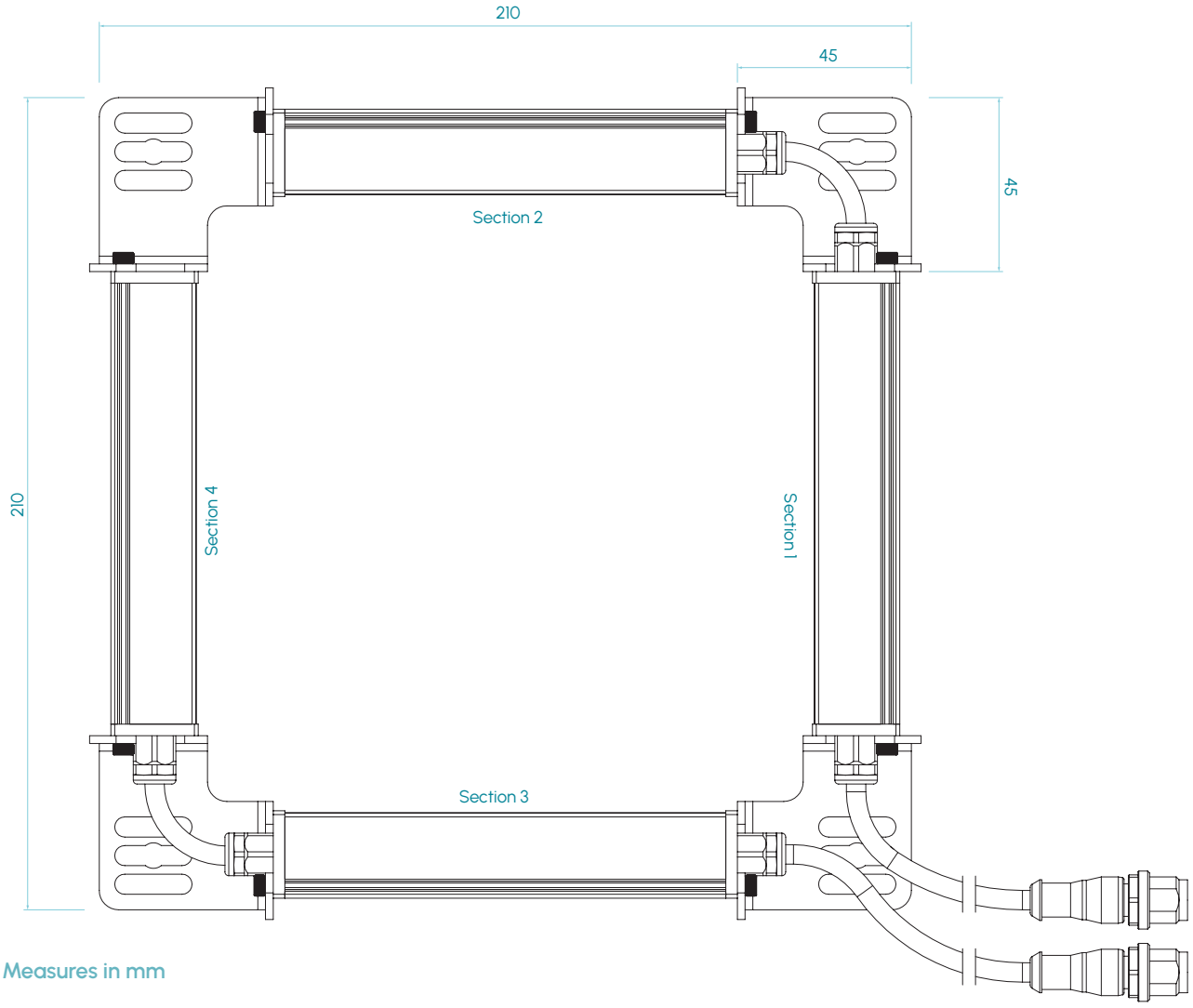
Fixings

P00R4,M6D16



Measures

IP40 / IP65



Measures in mm

P4DM

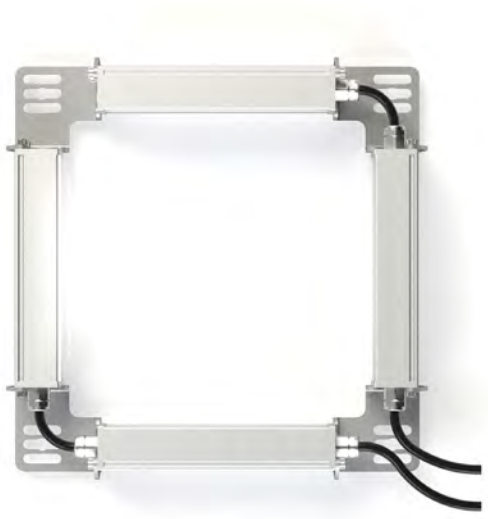
Selection guide

P4DM P

- **Input**
  - K - Axial Cable, 2 m
  - VY - 1,5 m Axial Cable + M12A connector
- **Diffuser**
  - C - Semidiffuse
  - U - Ultradiffuse
  - T - Transparent (1)
- **IP Rating**
  - 3 - IP40
  - 5 - IP65
- **Wavelength**
  - D - White 5000K
  - R - Red 625nm
  - F - Infrared 850nm
  - U - Ultraviolet 365nm
- **Length (2nd y 3rd section)** - 1 ... 4 - 90mm steps
- **Length (1st y 4th section)** - 1 ... 4 - 90mm steps

(1) Transparent cover is only available for U wavelength.

Model P4DM · White 5000K





5000K
WHITE

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

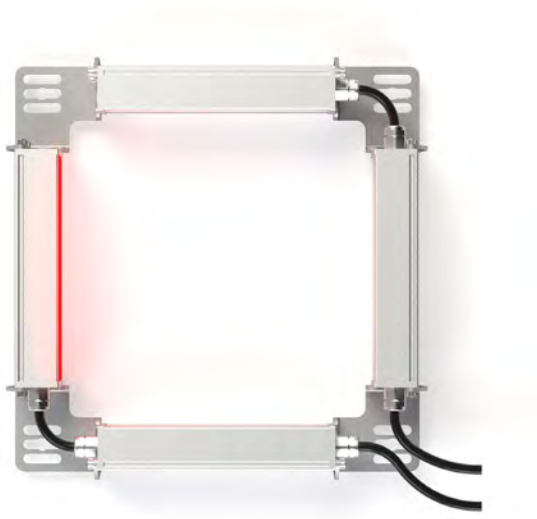
60.000h
LIFESPAN

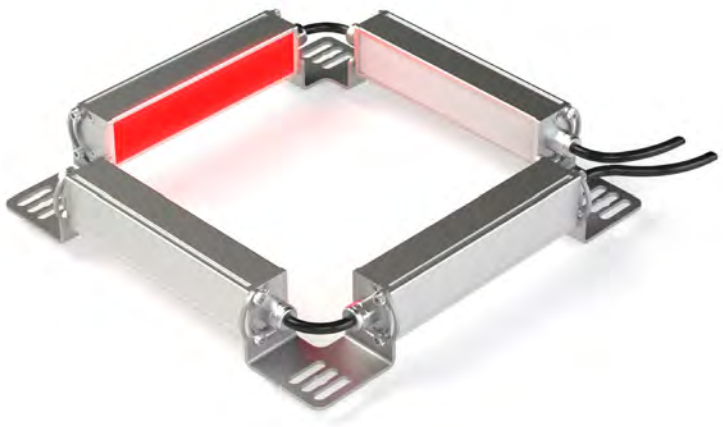
Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Luminous flux (2) (lm)	Power consumed (W)
P4DM 11	210	210	520	1.216	7,6
P4DM 12	210	300	616	1.824	11,4
P4DM 13	210	390	712	2.432	15,2
P4DM 14	210	480	808	3.040	19,0
P4DM 22	300	300	904	2.432	15,2
P4DM 23	300	390	1.000	3.040	19,0
P4DM 24	300	480	1.096	3.648	22,8
P4DM 33	390	390	1.192	3.648	22,8
P4DM 34	390	480	1.288	4.256	26,6
P4DM 44	480	480	1.384	4.864	30,4

(2) Luminous flux (lm) is before the diffuser.

Model P4DM · Red 625 nm





625nm
RED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

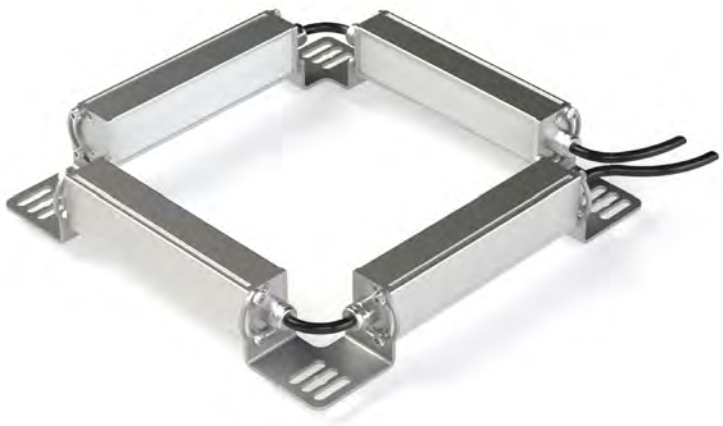
Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Luminous flux (2) (lm)	Power consumed (W)
P4DM 11	210	210	520	388	7,6
P4DM 12	210	300	616	581	11,4
P4DM 13	210	390	712	775	15,2
P4DM 14	210	480	808	969	19,0
P4DM 22	300	300	904	775	15,2
P4DM 23	300	390	1.000	969	19,0
P4DM 24	300	480	1.096	1.163	22,8
P4DM 33	390	390	1.192	1.163	22,8
P4DM 34	390	480	1.288	1.357	26,6
P4DM 44	480	480	1.384	1.550	30,4

(2) Luminous flux (lm) is before the diffuser.

Model P4DM · Infrared 850 nm





850nm
INFRARED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

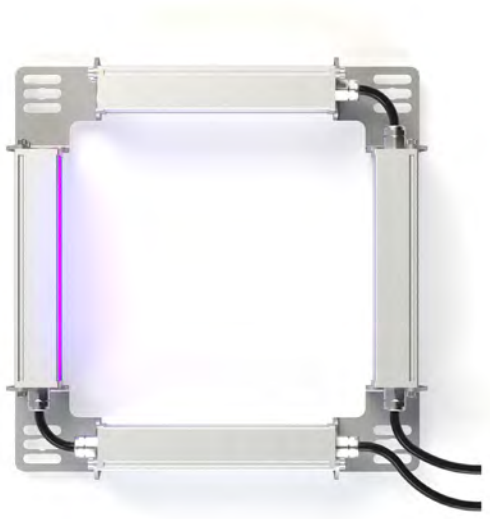
60.000h
LIFESPAN

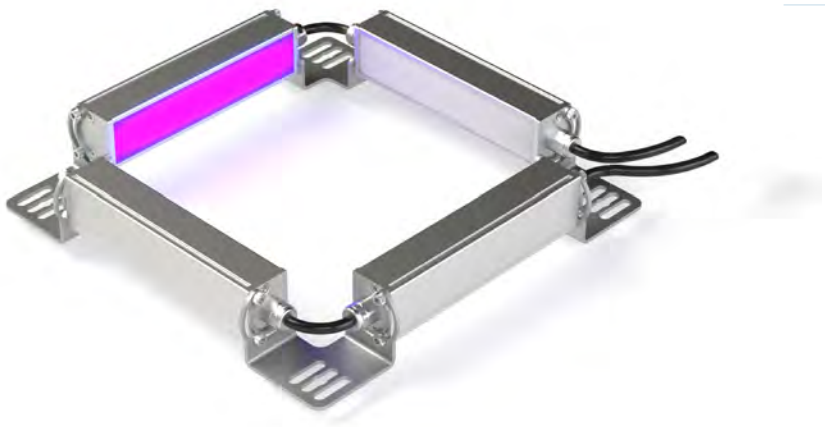
Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Radiated power [2] (W)	Power consumed (W)
P4DM 11	210	210	520	1,6	4,0
P4DM 12	210	300	616	2,4	6,0
P4DM 13	210	390	712	3,2	8,0
P4DM 14	210	480	808	4,0	10,0
P4DM 22	300	300	904	3,2	8,0
P4DM 23	300	390	1.000	4,0	10,0
P4DM 24	300	480	1.096	4,8	12,0
P4DM 33	390	390	1.192	4,8	12,0
P4DM 34	390	480	1.288	5,6	14,0
P4DM 44	480	480	1.384	6,4	16,0

(2) Radiated power (W) is before the diffuser.

Model P4DM · Ultraviolet 365 nm





365nm
ULTRAVIOLET

TRANSPARENT
55°

PHOTOBIOLOGICAL RISK
RG2 - MEDIUM

15.000h
LIFESPAN

Table of characteristics

	Width (mm)	Height (mm)	Weight (g)	Radiated power [2] (W)	Power consumed (W)
P4DM 11	210	210	520	3,7	7,6
P4DM 12	210	300	616	5,6	11,4
P4DM 13	210	390	712	7,5	15,2
P4DM 14	210	480	808	9,3	19,0
P4DM 22	300	300	904	7,5	15,2
P4DM 23	300	390	1.000	9,3	19,0
P4DM 24	300	480	1.096	11,2	22,8
P4DM 33	390	390	1.192	11,2	22,8
P4DM 34	390	480	1.288	13,1	26,6
P4DM 44	480	480	1.384	14,9	30,4

(2) Radiated power (W) is before the diffuser.



Functional

Below is a selection of luminaires designed to meet specific lighting needs in a variety of spaces, whether in residential, commercial or industrial environments. Our range extends from luminaires with different shades and automatic on/off accessories.

Each of our luminaires has been created with attention to detail, from the initial idea to the materialisation of the product, with a focus on quality of light, energy efficiency and durability. We work with the latest advances in LED technology to bring you solutions that offer bright, uniform and energy-efficient lighting.

In addition to the wide selection of luminaires, we also offer expert advice to help you choose the most suitable options for your project. Our team of professionals is available to answer your questions, provide you with personalised recommendations and make sure you find the right lighting solutions for your needs.

Explore our catalogue and discover how our functional luminaires can transform your space with lighting that is efficient, stylish and tailored to your requirements.

Light up in style with our range of functional luminaires.

Functional Series
SR y SRX

The SR and SRX series brings lighting to the smallest possible size, adjusting every millimetre of the luminaire for reduced dimensions and considerable light output.

Available with axial or radial connection, it allows installation in different types of applications by fixing with carefully designed anchors to maintain the minimalist aesthetics.

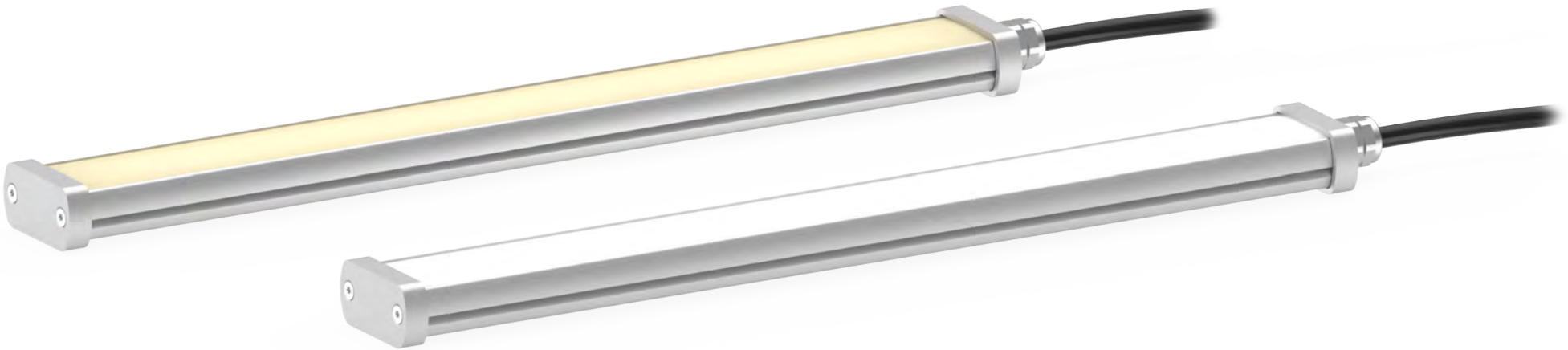
Using electronics with different types of shades we can create the space we need. Whether we are looking for a comfortable atmosphere or on the contrary we want to enhance the finer details, we have a specific lighting for each environment.

Recommended for architectural installations, outdoor and ornamental lighting, even for industrial applications where size matters, work tables, control stations, etc.

Being a fully configurable product, it can be adapted to every need by adjusting a few parameters.



Functional · SR Series



24 V DC	155 lm/W	NOT CASCADABLE	75 mm INCREMENTAL	FUNCTIONAL	CABLE M8A
POWER 1x ECO 0,5x	IP40 IP65	PWM DIMABLE	CLASS III	36 MONTHS	EU MADE IN SPAIN

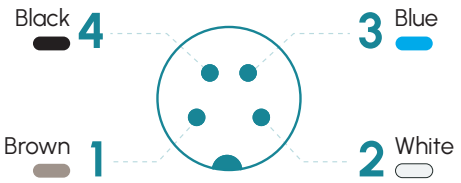
Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	155 lm/W	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	150° 150°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	2m cable, M8 connector with cable	
Standards	RoHs, CE	

Connection

Input M8A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M8A Male



Fixings

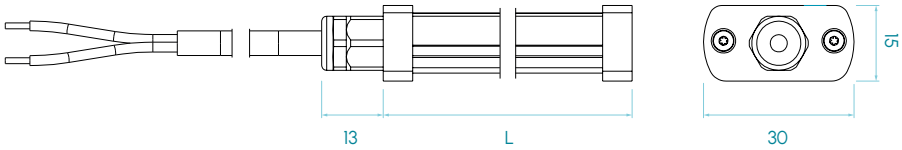
S00G2



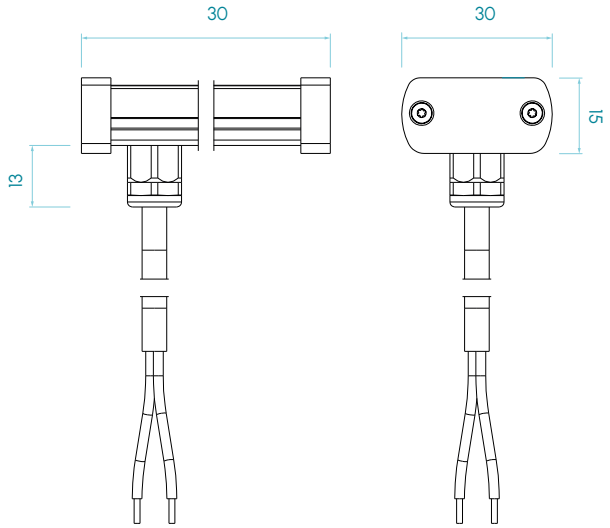
SR

Measures

M8A axial version



M8A radial version



Measures in mm

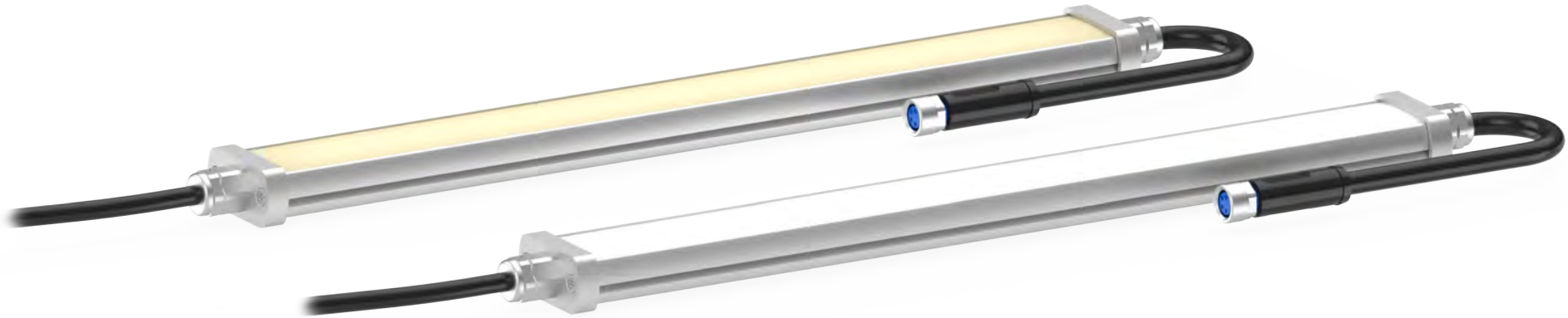
SR

Selection guide

SR

- Input
  - K - Axial Cable, 2 m
  - KL - Radial Cable, 2 m
  - PZ - 10 cm axial cable with M8A male connector
  - RZ - 10 cm radial cable with M8A male connector
- Diffuser
  - C - Semidiffuse
  - U - Ultradiffuse
- IP Rating
  - 3 - IP40
  - 5 - IP65
- Colour temp.
  - W - Warm white 3000K
  - D - Daylight white 5000K
- Working mode
  - P - Power
  - E - Eco
  - D - Dual
- Length
  - 1 - 18 - 75 mm steps

Functional · SRX Series



24 V
DC

155
lm/W

CASCADABLE

75 mm
INCREMENTAL

FUNCTIONAL

CABLE
M8A

POWER 1x
ECO 0,5x

IP40
IP65

PWM
DIMABLE

III
CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	150° 150°
Max. number of cascadable modules (1)	Power = 56	Eco = 112
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	2m cable, M8 connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.

Connection

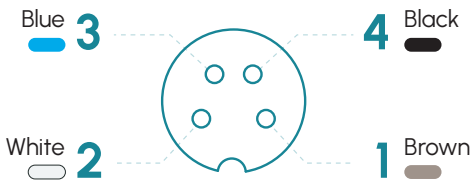
Input M8A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

Output M8A	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Same as Pin 2 input
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M8A Male



M8A Female



Fixings

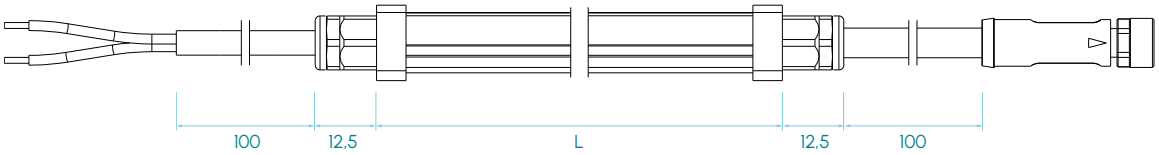
S00G2

SRX

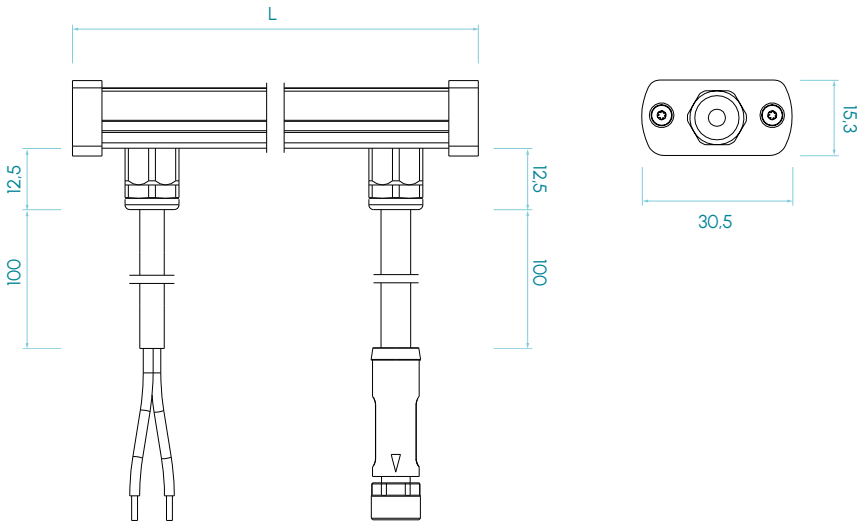


Measures

M8A axial version



M8A radial version



Measures in mm

SRX

Selection guide

SRX

Output
- PZ - 10 cm axial cable with M8A female connector
- RZ - 10 cm radial cable with M8A female connector

Entry
- K - Axial Cable, 2 m
- KL - Radial Cable, 2 m
- PZ - 10 cm axial cable with M8A male connector
- RZ - 10 cm radial cable with M8A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse

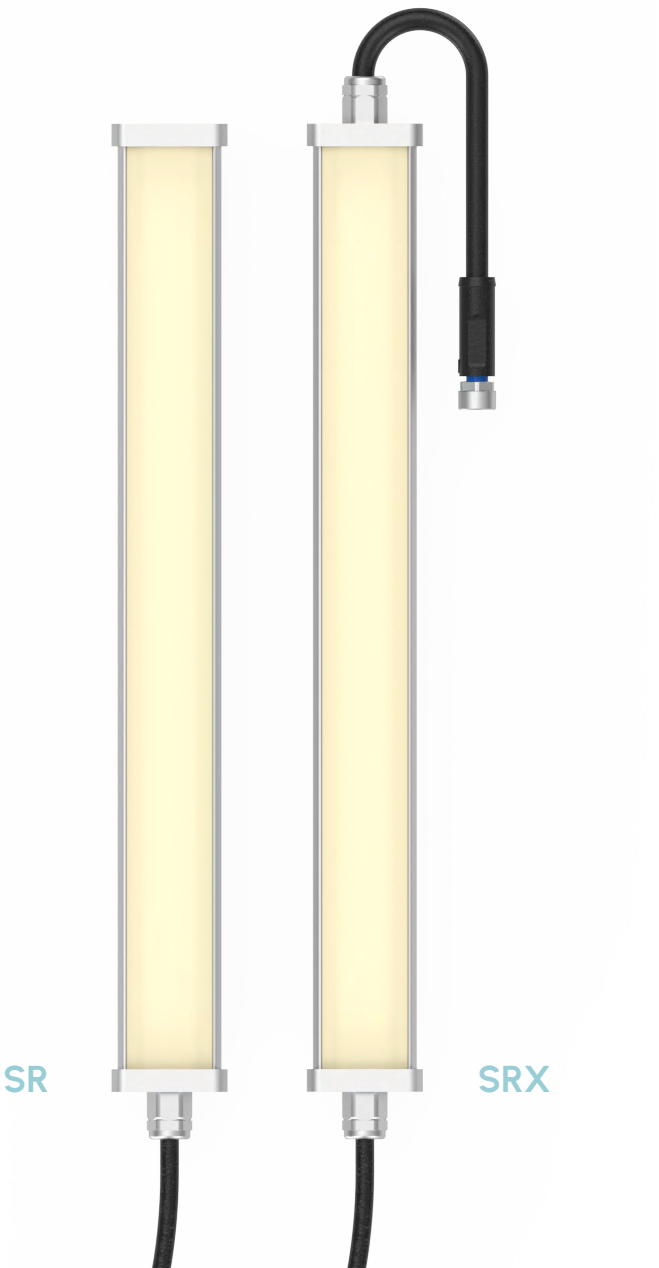
IP Rating
- 3 - IP40
- 5 - IP65

Colour temp
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- P - Power
- E - Eco
- D - Dual

Length
- 1 - 18 - 75 mm steps

SR & SRX Series · Warm white 3000K



3000K
WARM WHITE

SEMIDIFFUSE 150°

ULTRADIFFUSE 150°

PHOTOBIOLOGICAL RISK
RG1 - LOW

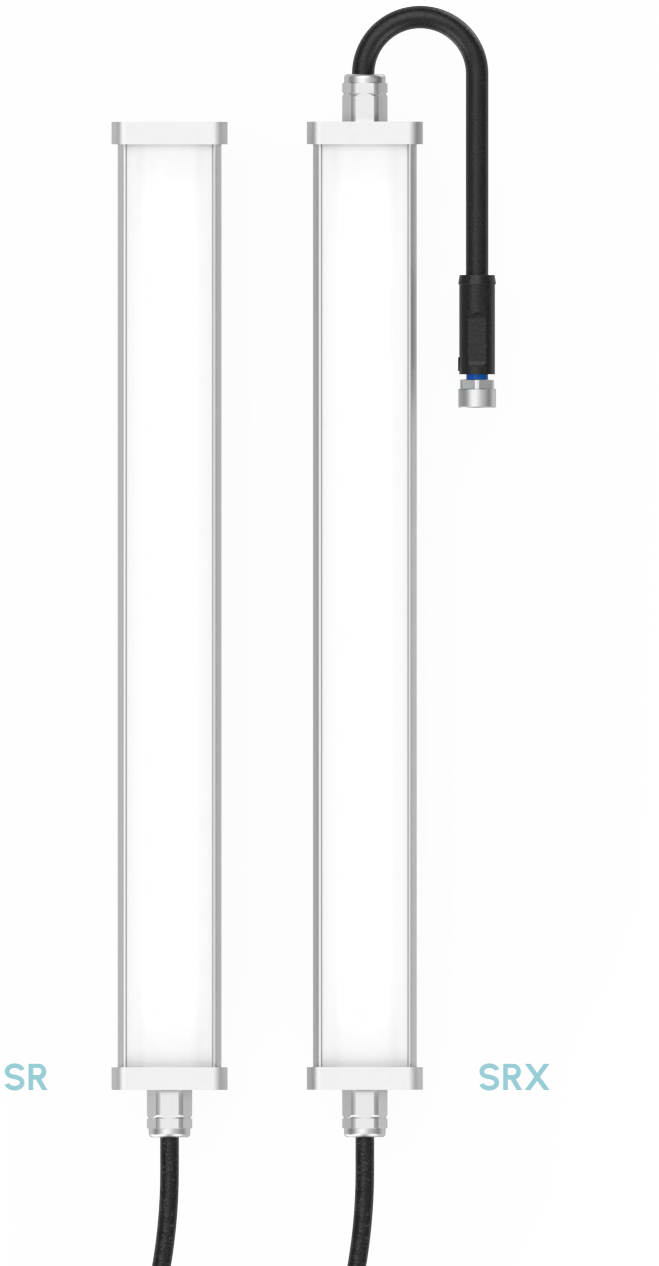
60.000h
LIFESPAN

Table of characteristics

	Length L1 (2) (mm)	Length L2 (2) (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux (3) (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
SR/SRX 01...	105	123	115	44	24	35	19	195	98	1,6	0,8
SR/SRX 02...	180	198	141	88	48	69	37	390	195	3,2	1,6
SR/SRX 03...	255	273	167	132	71	104	56	586	293	4,8	2,4
SR/SRX 04...	330	348	193	177	95	139	75	781	390	6,4	3,2
SR/SRX 05...	405	423	219	221	119	174	93	976	488	8,0	4,0
SR/SRX 06...	480	498	245	265	143	208	112	1.171	586	9,6	4,8
SR/SRX 07...	555	573	271	309	166	243	131	1.366	683	11,2	5,6
SR/SRX 08...	630	648	297	353	190	278	150	1.562	781	12,8	6,4
SR/SRX 09...	705	723	323	397	214	312	168	1.757	878	14,4	7,2
SR/SRX 10...	780	798	349	441	238	347	187	1.952	976	16,0	8,0
SR/SRX 11...	855	873	375	485	262	382	206	2.147	1.074	17,6	8,8
SR/SRX 12...	930	948	401	530	285	417	224	2.342	1.171	19,2	9,6
SR/SRX 13...	1.005	1.023	427	574	309	451	243	2.538	1.269	20,8	10,4
SR/SRX 14...	1.080	1.098	453	618	333	486	262	2.733	1.366	22,4	11,2
SR/SRX 15...	1.155	1.173	479	662	357	521	280	2.928	1.464	24,0	12,0
SR/SRX 16...	1.230	1.248	505	706	381	555	299	3.123	1.562	25,6	12,8
SR/SRX 17...	1.305	1.323	531	750	404	590	318	3.318	1.659	27,2	13,6
SR/SRX 18...	1.380	1.398	557	794	428	625	336	3.514	1.757	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

SR & SRX Series · Daylight white 5000K



5000K
DAYLIGHT WHITE

SEMIDIFFUSE 150°

ULTRADIFFUSE 150°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 (2) (mm)	Length L2 (2) (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux (3) (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
SR/SRX 01...	105	123	89	56	28	34	17	251	126	1,6	0,8
SR/SRX 02...	180	198	129	111	56	67	33	502	251	3,2	1,6
SR/SRX 03...	255	273	169	167	84	101	50	754	377	4,8	2,4
SR/SRX 04...	330	348	209	222	112	134	67	1.005	502	6,4	3,2
SR/SRX 05...	405	423	249	278	140	168	83	1.256	628	8,0	4,0
SR/SRX 06...	480	498	289	333	168	201	100	1.507	754	9,6	4,8
SR/SRX 07...	555	573	329	389	196	235	117	1.758	879	11,2	5,6
SR/SRX 08...	630	648	369	444	224	268	133	2.010	1.005	12,8	6,4
SR/SRX 09...	705	723	409	500	251	302	150	2.261	1.130	14,4	7,2
SR/SRX 10...	780	798	449	556	279	335	167	2.512	1.256	16,0	8,0
SR/SRX 11...	855	873	489	611	307	369	183	2.763	1.382	17,6	8,8
SR/SRX 12...	930	948	529	667	335	402	200	3.014	1.507	19,2	9,6
SR/SRX 13...	1.005	1.023	569	722	363	436	217	3.266	1.633	20,8	10,4
SR/SRX 14...	1.080	1.098	609	778	391	469	233	3.517	1.758	22,4	11,2
SR/SRX 15...	1.155	1.173	649	833	419	503	250	3.768	1.884	24,0	12,0
SR/SRX 16...	1.230	1.248	689	889	447	536	267	4.019	2.010	25,6	12,8
SR/SRX 17...	1.305	1.323	729	944	475	570	283	4.270	2.135	27,2	13,6
SR/SRX 18...	1.380	1.398	769	1.000	503	604	300	4.522	2.261	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

Serie Functional
SC & SCX

First cousin of the SR series, the SC series is specially designed for indoor use where IP protection is no longer an important requirement.

The axial or radial connection possibilities make it easy to use in different applications.

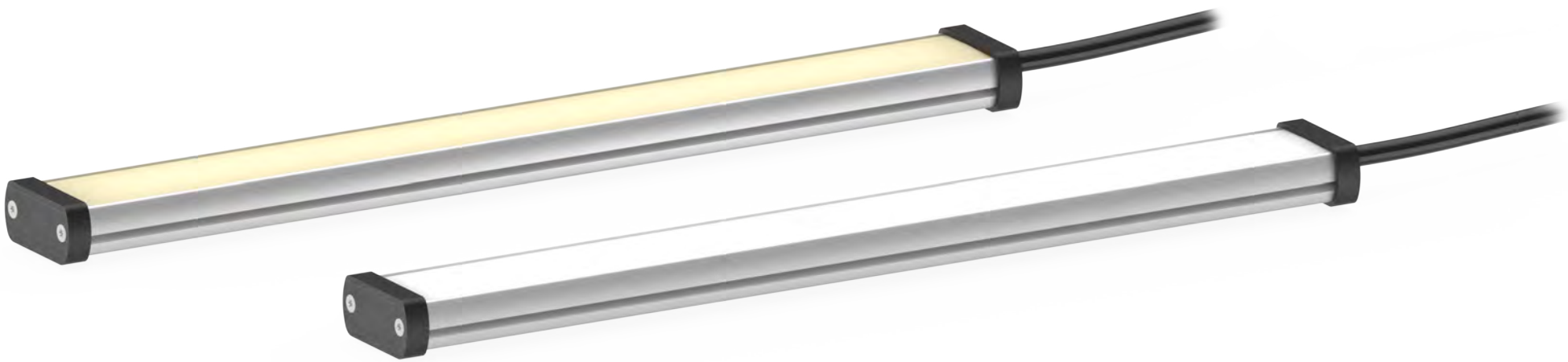
Using the same electronics as the previous series, the SC series offers multiple possibilities in terms of light, shades that will make your space illuminated with a comfortable and pleasant light.

With a wide range of applications, this series is particularly suitable for indoor spaces where there is no need for high IP protection. False ceiling applications, backlighting, specific lighting, etc.

High performance in a reduced size while maintaining the aesthetics, homogeneity and quality of the product, will take the lighting of your spaces to a higher level.



Functional · SC Series



24 V DC	155 lm/W	NOT CASCADABLE	75 mm INCREMENTAL	FUNCTIONAL	CABLE
POWER 1x ECO 0,5x	IP40	PWM DIMABLE	CLASS III	36 MONTHS	EU MADE IN SPAIN

Technical specifications

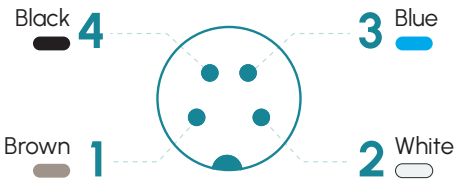
Power supply voltage	24 Vdc ±5%	
Luminous efficiency	155 lm/W	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	150° 150°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	SLA resin	
Diffuser material	Polycarbonate	
Connection types	2m cable, M8 connector with cable	
Standards	RoHs, CE	

SC

Connection

Input M8A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M8A Male



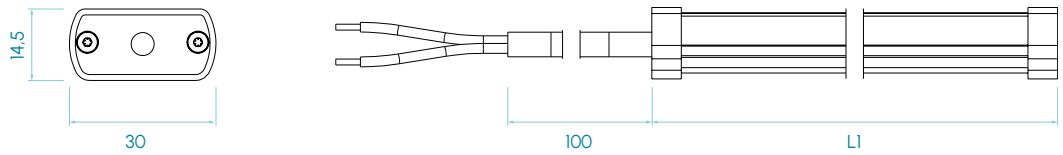
Fixings

S00G2

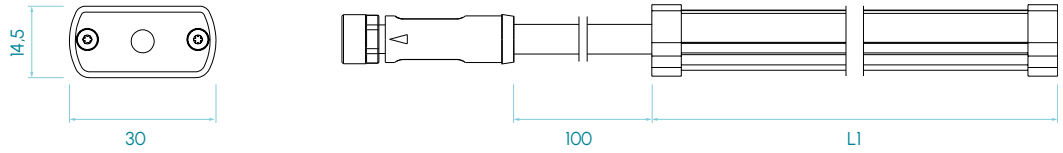


Measures

Cable version



M8A axial cable version



Measures in mm

SC

Selection guide

SC 3

Input
- K - Axial cable, 2 m
- PZ - 10 cm axial cable with M8A male connector

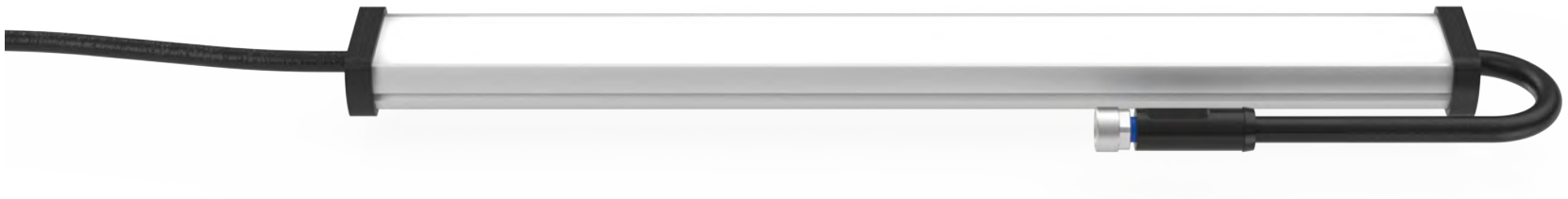
Diffuser
- C - Semidiffuse
- U - Ultradiffuse

Colour temp.
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- P - Power
- E - Eco
- D - Dual

Length
- 1 - 18 - 75 mm steps

Functional · SCX Series



24 V
DC

155
lm/W

CASCADABLE

75 mm
INCREMENTAL

FUNCTIONAL

CABLE

POWER 1x
ECO 0,5x

IP40

PWM
DIMABLE

CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	150° 150°
Max. number of cascadable modules (1)	Power = 56	Eco = 112
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	SLA resin	
Diffuser material	Polycarbonate	
Connection types	2m cable, M8 connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.

Connection

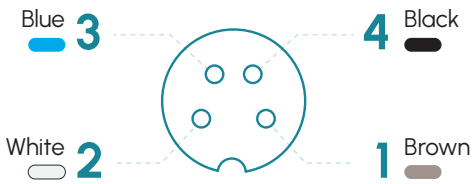
Input M8A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

Output M8A	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Same as Pin 2 input
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M8A Male



M8A Female



Fixings

S00G2

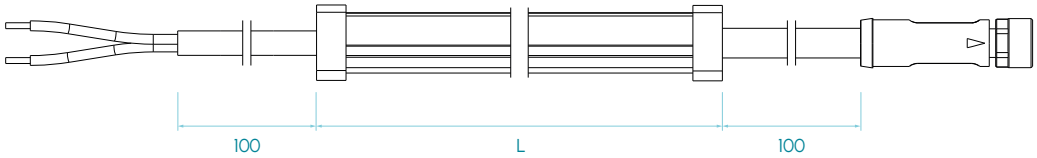
SCX



Measures

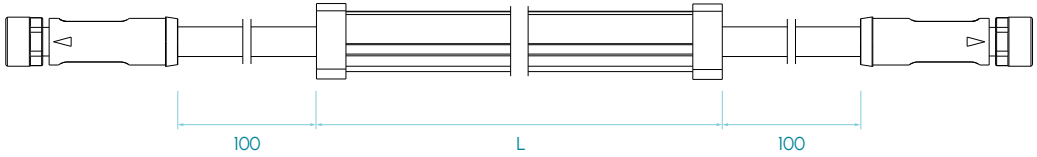
IP40

Axial version Cable - M8A Cable



Axial version M8A Cable - M8A Cable

IP65



Selection guide

SCX 3 PZ

Input
- K - Axial cable, 2 m
- PZ - 10 cm axial cable with M8A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse

Colour temp.
- W - Warm white 3000K
- D - Daylight white 5000K

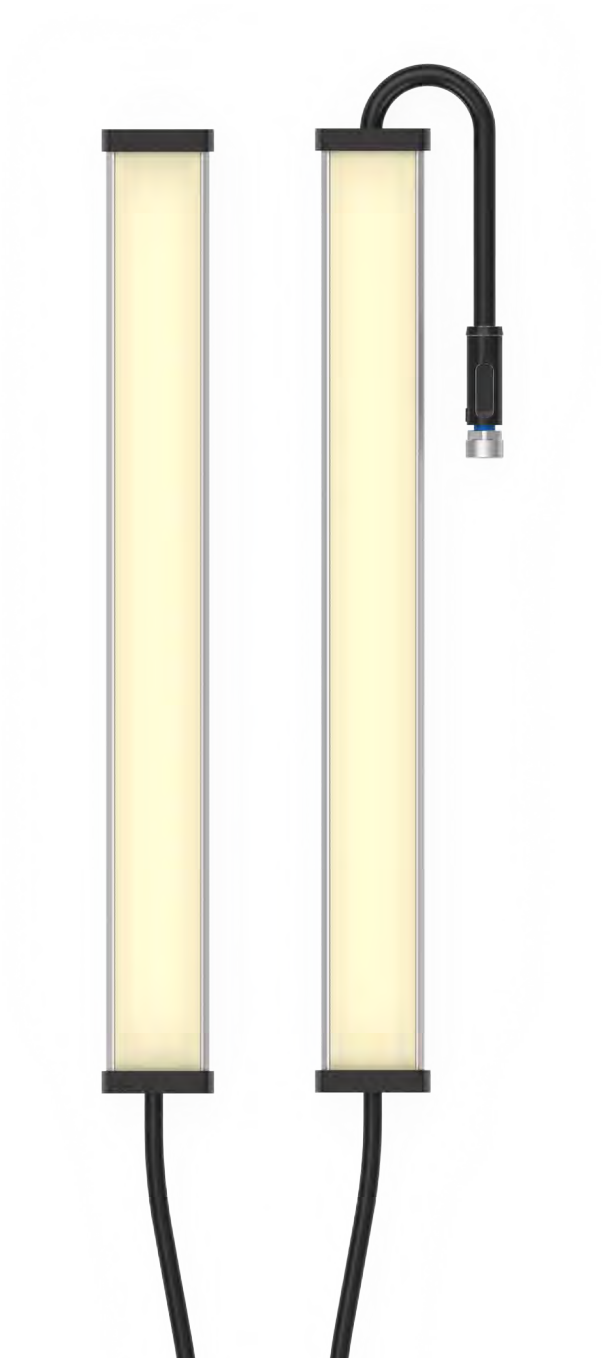
Working mode
- P - Power
- E - Eco
- D - Dual

Length
- 1 - 18 - 75 mm steps

Measures in mm

SCX

SC & SCX Series · Warm white 3000K



3000K
WARM WHITE

SEMIDIFFUSE 150°

ULTRADIFFUSE 150°

PHOTOBIOLOGICAL RISK
RG1 - LOW

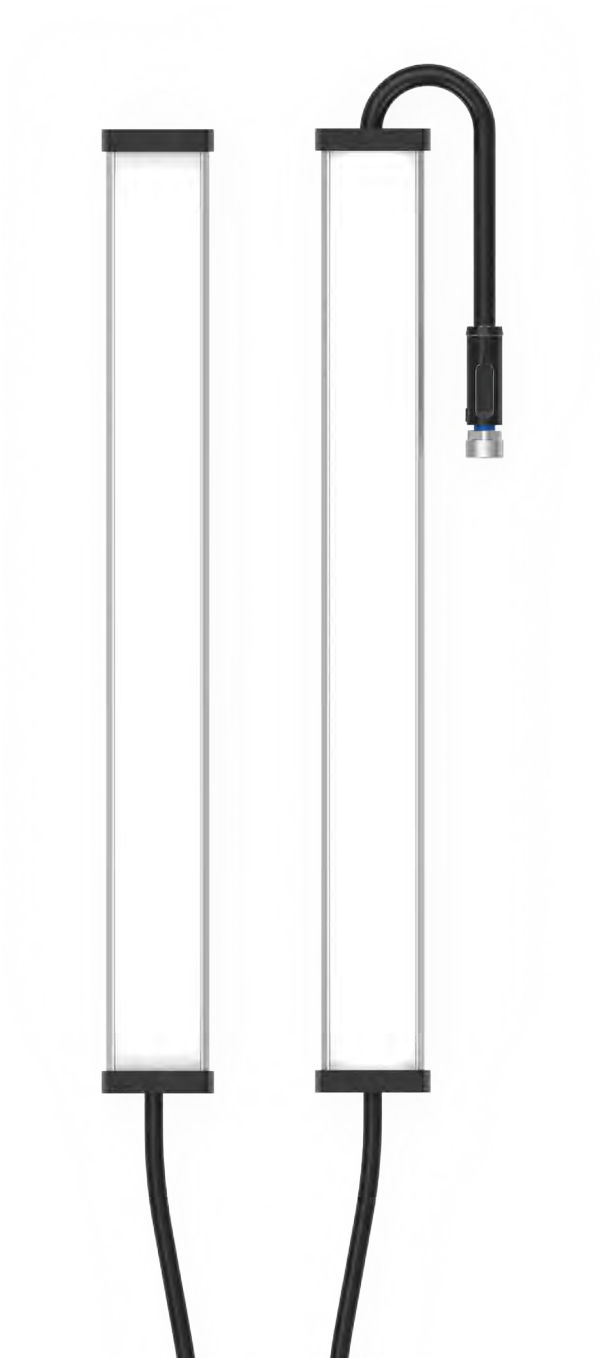
60.000h
LIFESPAN

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
SC/SCX 01...	105	123	115	44	24	35	19	195	98	1,6	0,8
SC/SCX02...	180	198	141	88	48	69	37	390	195	3,2	1,6
SC/SCX 03...	255	273	167	132	71	104	56	586	293	4,8	2,4
SC/SCX 04...	330	348	193	177	95	139	75	781	390	6,4	3,2
SC/SCX 05...	405	423	219	221	119	174	93	976	488	8,0	4,0
SC/SCX 06...	480	498	245	265	143	208	112	1.171	586	9,6	4,8
SC/SCX 07...	555	573	271	309	166	243	131	1.366	683	11,2	5,6
SC/SCX 08...	630	648	297	353	190	278	150	1.562	781	12,8	6,4
SC/SCX 09...	705	723	323	397	214	312	168	1.757	878	14,4	7,2
SC/SCX 10...	780	798	349	441	238	347	187	1.952	976	16,0	8,0
SC/SCX 11...	855	873	375	485	262	382	206	2.147	1.074	17,6	8,8
SC/SCX 12...	930	948	401	530	285	417	224	2.342	1.171	19,2	9,6
SC/SCX 13...	1.005	1.023	427	574	309	451	243	2.538	1.269	20,8	10,4
SC/SCX 14...	1.080	1.098	453	618	333	486	262	2.733	1.366	22,4	11,2
SC/SCX 15...	1.155	1.173	479	662	357	521	280	2.928	1.464	24,0	12,0
SC/SCX 16...	1.230	1.248	505	706	381	555	299	3.123	1.562	25,6	12,8
SC/SCX 17...	1.305	1.323	531	750	404	590	318	3.318	1.659	27,2	13,6
SC/SCX 18...	1.380	1.398	557	794	428	625	336	3.514	1.757	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

Serie SC y SCX · Blanco día 5000K



5000K
BLANCO DÍA

SEMIDIFUSO 150°

ULTRADIFUSO 150°

RIESGO FOTOBIOLÓGICO
RG1 - BAJO

60.000h
VIDA ÚTIL

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
SC/SCX 01...	105	123	115	60	32	47	25	251	126	1,6	0,8
SC/SCX02...	180	198	141	120	65	94	51	502	251	3,2	1,6
SC/SCX 03...	255	273	167	180	97	141	76	754	377	4,8	2,4
SC/SCX 04...	330	348	193	240	129	188	101	1.005	502	6,4	3,2
SC/SCX 05...	405	423	219	299	161	236	127	1.256	628	8,0	4,0
SC/SCX 06...	480	498	245	359	194	283	152	1.507	754	9,6	4,8
SC/SCX 07...	555	573	271	419	226	330	178	1.758	879	11,2	5,6
SC/SCX 08...	630	648	297	479	258	377	203	2.010	1.005	12,8	6,4
SC/SCX 09...	705	723	323	539	290	424	228	2.261	1.130	14,4	7,2
SC/SCX 10...	780	798	349	599	323	471	254	2.512	1.256	16,0	8,0
SC/SCX 11...	855	873	375	659	355	518	279	2.763	1.382	17,6	8,8
SC/SCX 12...	930	948	401	719	387	565	304	3.014	1.507	19,2	9,6
SC/SCX 13...	1.005	1.023	427	779	420	612	330	3.266	1.633	20,8	10,4
SC/SCX 14...	1.080	1.098	453	838	452	660	355	3.517	1.758	22,4	11,2
SC/SCX 15...	1.155	1.173	479	898	484	707	380	3.768	1.884	24,0	12,0
SC/SCX 16...	1.230	1.248	505	958	516	754	406	4.019	2.010	25,6	12,8
SC/SCX 17...	1.305	1.323	531	1.018	549	801	431	4.270	2.135	27,2	13,6
SC/SCX 18...	1.380	1.398	557	1.078	581	848	457	4.522	2.261	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

Functional Series
PR & PRX

The PR and PRX series is characterised by its unrivalled robustness, with attention to detail from initial design to mass production.

This is the series par excellence of the functional Lumher catalogue, where elegance and style coexist in harmony with power and design.

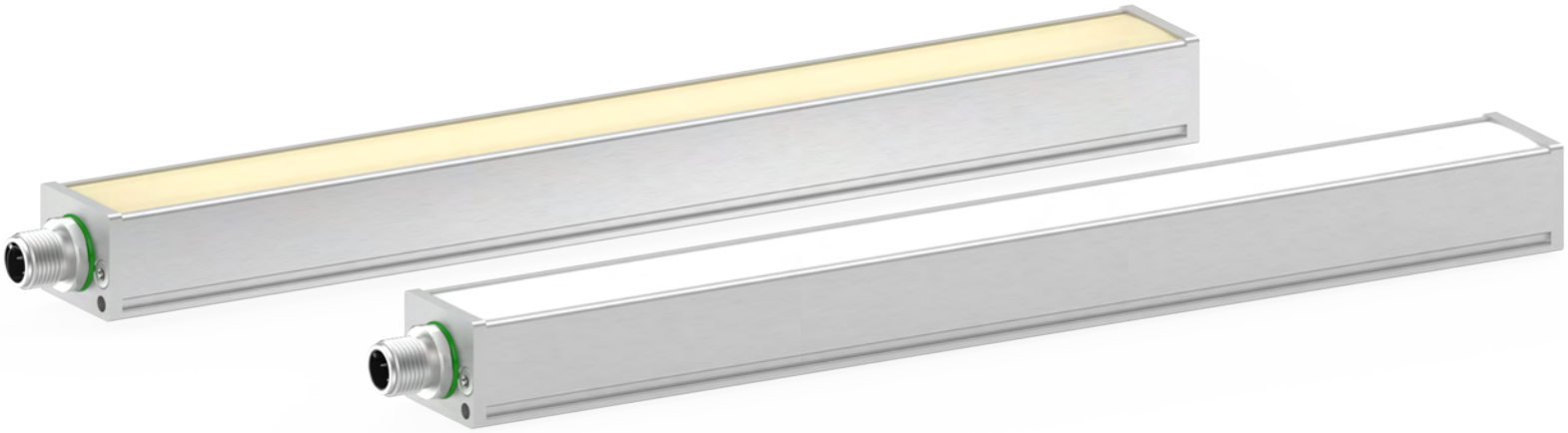
With its different types of connections, different types of sealing and different fixings, it covers a multitude of applications. Widely used in outdoor and indoor lighting applications where there is the possibility of splashing water, bathrooms, kitchens, balconies... anywhere that needs to be illuminated has its place.

On an industrial level it can be used in applications such as lighting of packaging machines, control posts, electrical panels and cabinets, etc.

As far as light is concerned, a homogeneous light has been achieved with two diffusers available, high power with an unbeatable quality of light.



Functional · PR Series



24 V
DC

155
lm/W

NOT
CASCADABLE

75 mm
INCREMENTAL

FUNCTIONAL

CABLE
M12A

POWER 1x
ECO 0,5x

IP40
IP65

PWM
DIMABLE

CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M12A Male



Fixings

P01G1, P00R1, M6D16

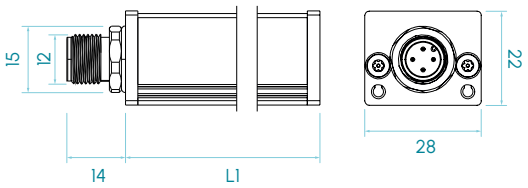


PR

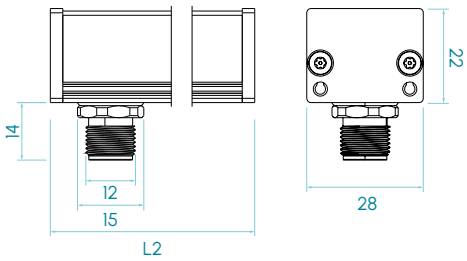
Measures

IP40

M12A axial version

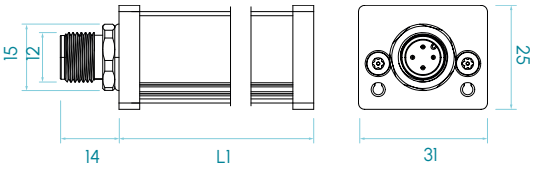


M12A radial version

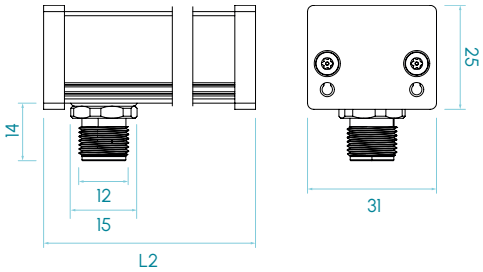


IP65

M12A axial version



M12A radial version



Measures in mm

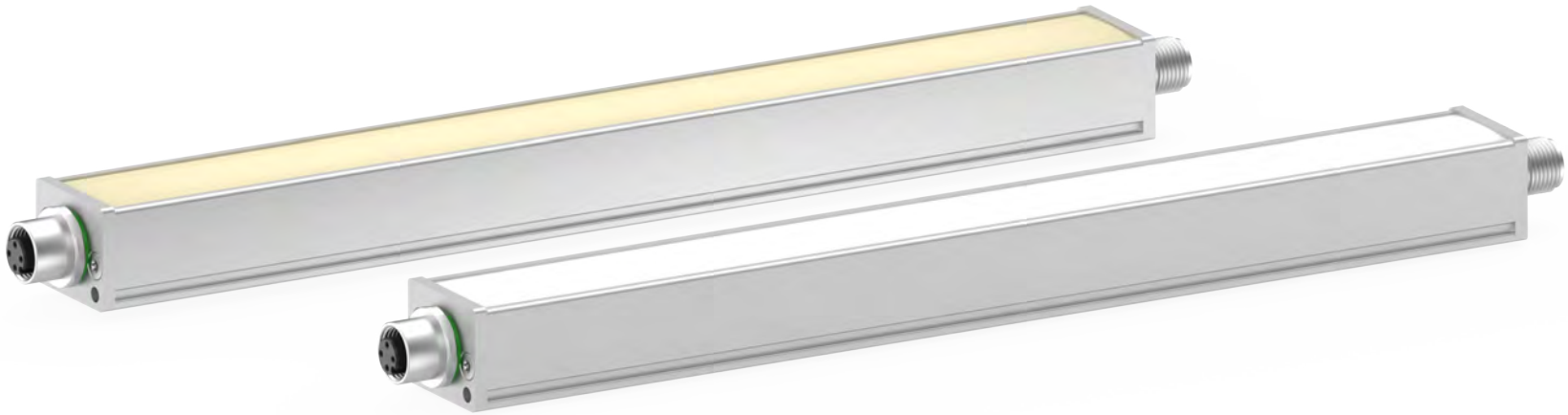
PR

Selection guide

PR

- **Input**
  - **K** - Axial Cable, 2 m
  - **KL** - Radial Cable, 2 m
  - **Y** - M12A axial male connector
  - **YL** - M12A radial male connector
  - **PY** - 10 cm axial cable with M12A male connector
  - **RY** - 10 cm radial cable with M12A male connector
- **Diffuser**
  - **C** - Semidiffuse
  - **U** - Ultradiffuse
- **IP Rating**
  - **3** - IP40
  - **5** - IP65
- **Colour temp.**
  - **W** - Warm white 3000K
  - **D** - Daylight white 5000K
- **Working mode**
  - **P** - Power
  - **E** - Eco
  - **D** - Dual: Power/Eco
- **Length**
  - **1 - 18** - 75 mm steps

Functional · PRX Series



24 V
DC

155
lm/W

CASCADABLE

75 mm
INCREMENTAL

FUNCTIONAL

CABLE
M12A

POWER 1x
ECO 0,5x

IP40
IP65

PWM
DIMABLE

III
CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules (1)	Power = 56	Eco = 112
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.

Connection

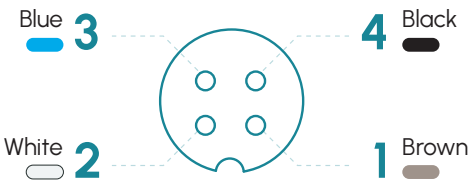
Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

Output M12A	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Same as Pin 2 input
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M12A Male



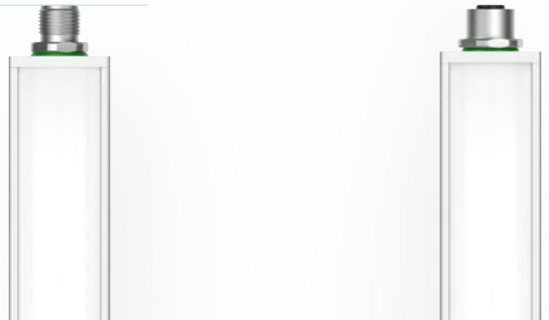
M12A Female



Fixings

P01G1, P00R1, M6D16

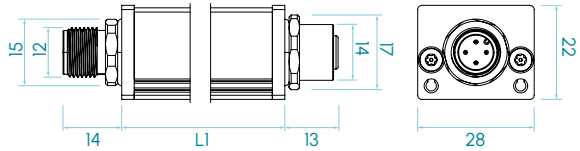
PRX



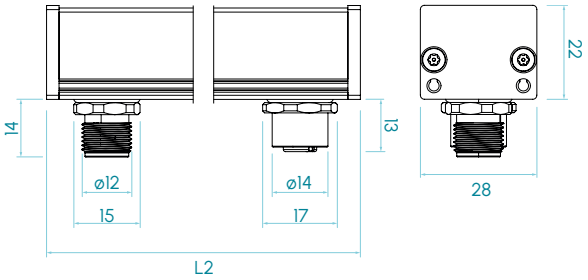
Measures

IP40

M12A axial version

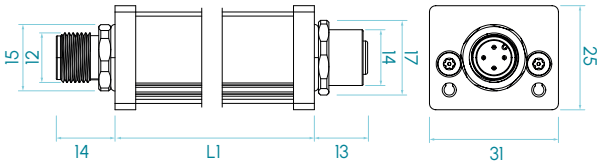


M12A radial version

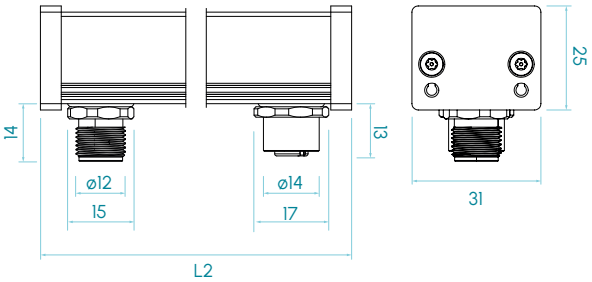


IP65

M12A axial version



M12A radial version



Measures in mm

PRX

Selection guide

PRX

Output
- Y - M12A axial female conenctor
- YL - M12A radial female connector
- PY - 10 cm axial cable with M12A female connector
- RY - 10 cm radial cable with M12A female connector

Input
- K - Axial Cable, 2 m
- KL - Radial Cable, 2 m
- Y - M12A axial male connector
- YL - M12A radial male connector
- PY - 10 cm axial cable with M12A male connector
- RY - 10 cm radial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse

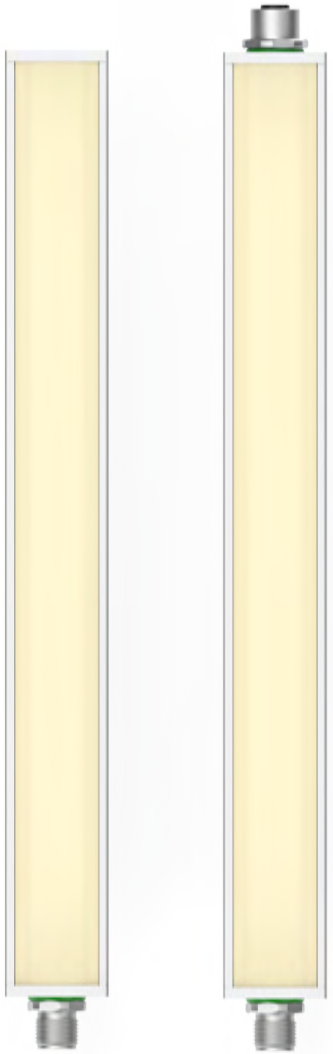
IP Rating
- 3 - IP40
- 5 - IP65

Colour temp.
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- P - Power
- E - Eco
- D - Dual: Power/Eco

Length
- 1 - 18 - 75 mm steps

PR & PRX Series · Warm white 3000K



PR PRX

3000K
WARM WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

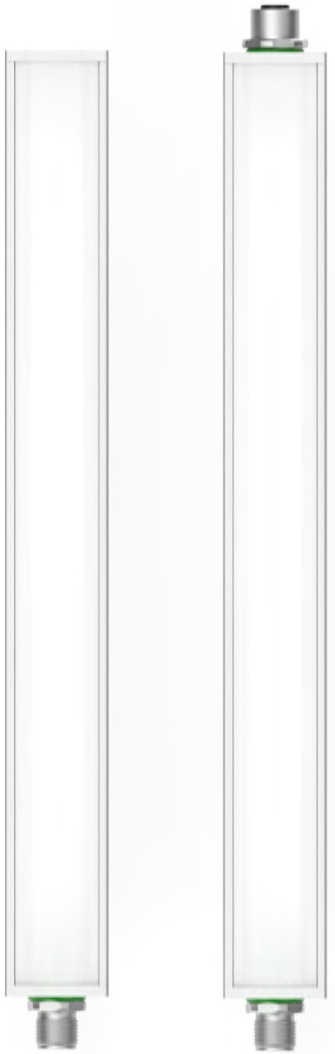
60.000h
LIFESPAN

Table of characteristics

	Length L1 (2) (mm)	Length L2 (2) (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux (3) (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PR/PRX 01...	105	123	89	41	21	25	12	195	98	1,6	0,8
PR/PRX 02...	180	198	129	82	41	49	25	390	195	3,2	1,6
PR/PRX 03...	255	273	169	123	62	74	37	586	293	4,8	2,4
PR/PRX 04...	330	348	209	164	82	99	49	781	390	6,4	3,2
PR/PRX 05...	405	423	249	205	103	124	61	976	488	8,0	4,0
PR/PRX 06...	480	498	289	246	124	148	74	1.171	586	9,6	4,8
PR/PRX 07...	555	573	329	287	144	173	86	1.366	683	11,2	5,6
PR/PRX 08...	630	648	369	327	165	198	98	1.562	781	12,8	6,4
PR/PRX 09...	705	723	409	368	185	222	110	1.757	878	14,4	7,2
PR/PRX 10...	780	798	449	409	206	247	123	1.952	976	16,0	8,0
PR/PRX 11...	855	873	489	450	226	272	135	2.147	1.074	17,6	8,8
PR/PRX 12...	930	948	529	491	247	296	147	2.342	1.171	19,2	9,6
PR/PRX 13...	1.005	1.023	569	532	268	321	160	2.538	1.269	20,8	10,4
PR/PRX 14...	1.080	1.098	609	573	288	346	172	2.733	1.366	22,4	11,2
PR/PRX 15...	1.155	1.173	649	614	309	371	184	2.928	1.464	24,0	12,0
PR/PRX 16...	1.230	1.248	689	655	329	395	196	3.123	1.562	25,6	12,8
PR/PRX 17...	1.305	1.323	729	696	350	420	209	3.318	1.659	27,2	13,6
PR/PRX 18...	1.380	1.398	769	737	371	445	221	3.514	1.757	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

PR & PRX Series · Daylight white 5000K



PR PRX

5000K
DAYLIGHT WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

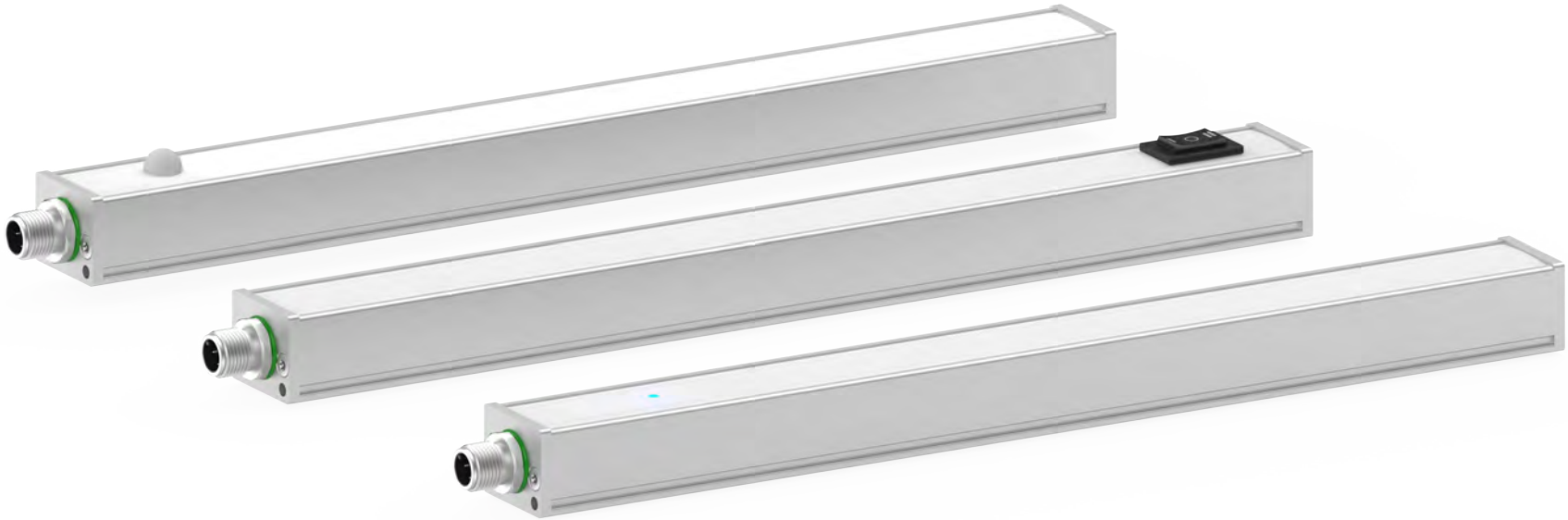
60.000h
LIFESPAN

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PR/PRX 01...	105	123	89	56	28	34	17	251	126	1,6	0,8
PR/PRX 02...	180	198	129	111	56	67	33	502	251	3,2	1,6
PR/PRX 03...	255	273	169	167	84	101	50	754	377	4,8	2,4
PR/PRX 04...	330	348	209	222	112	134	67	1.005	502	6,4	3,2
PR/PRX 05...	405	423	249	278	140	168	83	1.256	628	8,0	4,0
PR/PRX 06...	480	498	289	333	168	201	100	1.507	754	9,6	4,8
PR/PRX 07...	555	573	329	389	196	235	117	1.758	879	11,2	5,6
PR/PRX 08...	630	648	369	444	224	268	133	2.010	1.005	12,8	6,4
PR/PRX 09...	705	723	409	500	251	302	150	2.261	1.130	14,4	7,2
PR/PRX 10...	780	798	449	556	279	335	167	2.512	1.256	16,0	8,0
PR/PRX 11...	855	873	489	611	307	369	183	2.763	1.382	17,6	8,8
PR/PRX 12...	930	948	529	667	335	402	200	3.014	1.507	19,2	9,6
PR/PRX 13...	1.005	1.023	569	722	363	436	217	3.266	1.633	20,8	10,4
PR/PRX 14...	1.080	1.098	609	778	391	469	233	3.517	1.758	22,4	11,2
PR/PRX 15...	1.155	1.173	649	833	419	503	250	3.768	1.884	24,0	12,0
PR/PRX 16...	1.230	1.248	689	889	447	536	267	4.019	2.010	25,6	12,8
PR/PRX 17...	1.305	1.323	729	944	475	570	283	4.270	2.135	27,2	13,6
PR/PRX 18...	1.380	1.398	769	1.000	503	604	300	4.522	2.261	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

Functional · PRS Series



24 V DC

155 lm/W

NOT CASCADABLE

75 mm

INCREMENTAL

FUNCTIONAL

TACTILE

PIR

SWITCH

POWER 1x
ECO 0,5x

IP40

PWM

DIMABLE

CABLE

M12A

CLASS III

36 MONTHS

EU

MADE IN SPAIN

Technical specifications

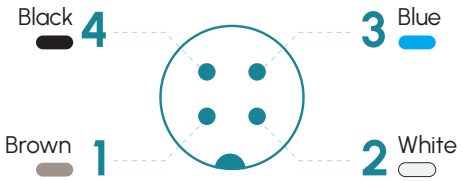
Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
Motion sensor disconnection delay (PIR)	5 min.	
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black (1)	24 Vdc = Power on 0 Vdc = Switched on by motion sensor or touch sensor		

(1) Pin 4 is not connected in the switch version

M12A Male



Fixings

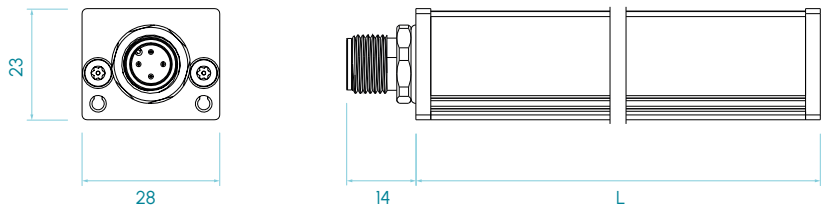
P01G1, P00R1, M6D16

PRS

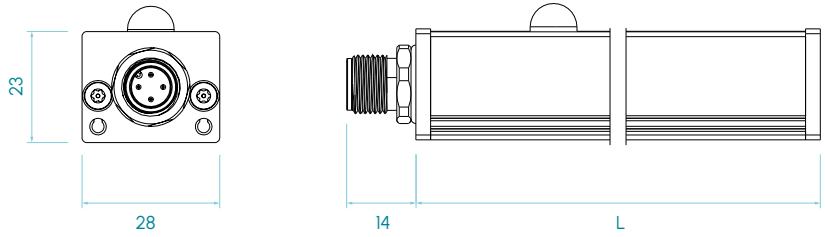


Measures

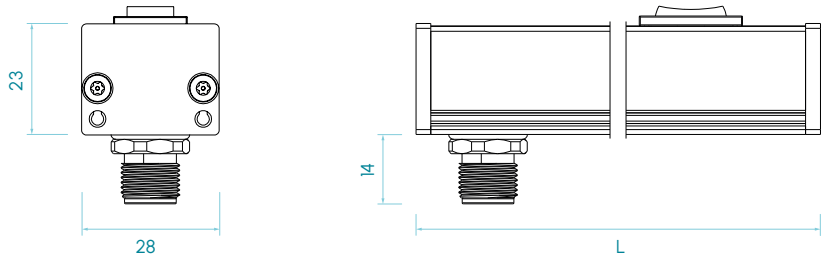
Tactile sensor + M12A axial input



Motion sensor + M12A axial input



Switch + M12A radial input



Measures in mm

PRS

Selection guide

PRS 3

Input
- K - Axial Cable, 2 m
- KL - Radial Cable, 2 m
- Y - M12A axial male connector
- YL - M12A radial male connector
- PY - 10 cm axial cable with M12A male connector
- RY - 10 cm radial cable with M12A male connector

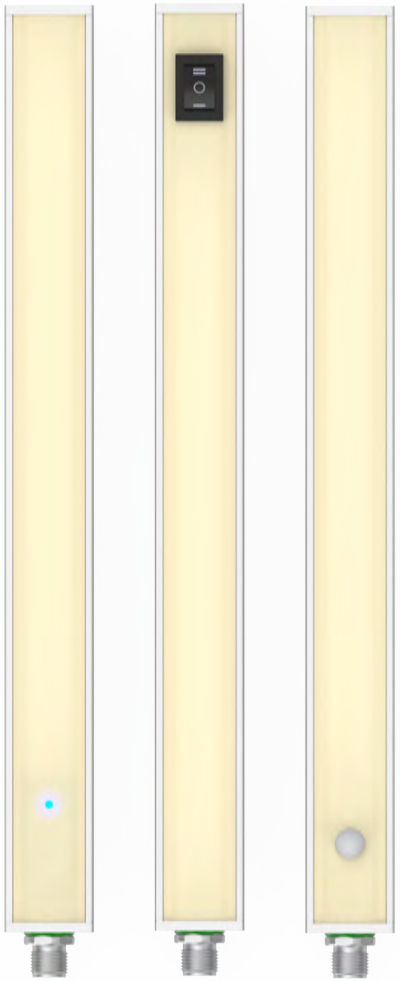
Diffuser
- C - Semidiffuse
- U - Ultradiffuse

Colour temp.
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- A - Power + movement sensor
- B - Eco + movement sensor
- C - Dual + movement sensor
- F - Power + touch sensor
- G - Eco + touch sensor
- H - Dual + touch sensor
- J - Power + switch
- K - Eco + switch
- M - Dual + switch

Length
- 1 - 18 - 75 mm steps

PRS Series · Warm white 3000



3000K
WARM WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

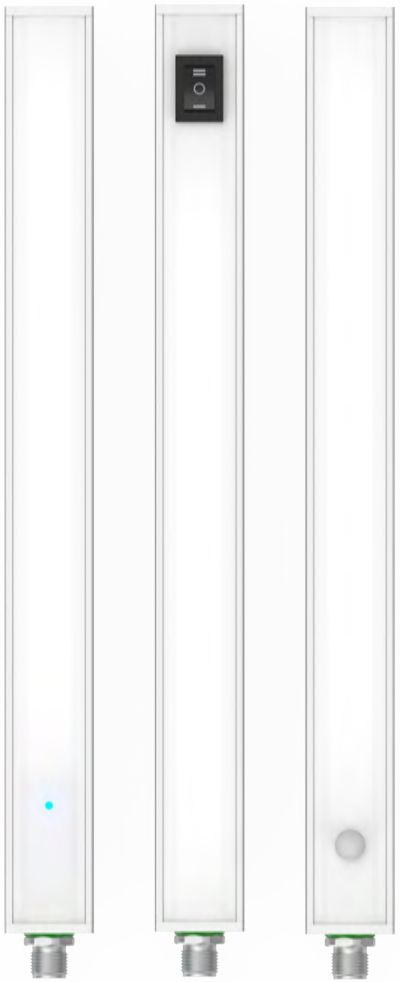
60.000h
LIFESPAN

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PRS 01...	140	158	89	41	21	25	12	195	98	1,6	0,8
PRS 02...	215	233	129	82	41	49	25	390	195	3,2	1,6
PRS 03...	290	308	169	123	62	74	37	586	293	4,8	2,4
PRS 04...	365	383	209	164	82	99	49	781	390	6,4	3,2
PRS 05...	440	458	249	205	103	124	61	976	488	8,0	4,0
PRS 06...	515	533	289	246	124	148	74	1.171	586	9,6	4,8
PRS 07...	590	608	329	287	144	173	86	1.366	683	11,2	5,6
PRS 08...	665	683	369	327	165	198	98	1.562	781	12,8	6,4
PRS 09...	740	758	409	368	185	222	110	1.757	878	14,4	7,2
PRS 10...	815	833	449	409	206	247	123	1.952	976	16,0	8,0
PRS 11...	890	908	489	450	226	272	135	2.147	1.074	17,6	8,8
PRS 12...	965	983	529	491	247	296	147	2.342	1.171	19,2	9,6
PRS 13...	1.040	1.058	569	532	268	321	160	2.538	1.269	20,8	10,4
PRS 14...	1.115	1.133	609	573	288	346	172	2.733	1.366	22,4	11,2
PRS 15...	1.190	1.208	649	614	309	371	184	2.928	1.464	24,0	12,0
PRS 16...	1.265	1.283	689	655	329	395	196	3.123	1.562	25,6	12,8
PRS 17...	1.340	1.358	729	696	350	420	209	3.318	1.659	27,2	13,6
PRS 18...	1.415	1.433	769	737	371	445	221	3.514	1.757	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

PRS Series · Daylight white 5000K



5000K
DAYLIGHT WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PRS 01...	140	158	89	56	28	34	17	251	126	1,6	0,8
PRS 02...	215	233	129	111	56	67	33	502	251	3,2	1,6
PRS 03...	290	308	169	167	84	101	50	754	377	4,8	2,4
PRS 04...	365	383	209	222	112	134	67	1.005	502	6,4	3,2
PRS 05...	440	458	249	278	140	168	83	1.256	628	8,0	4,0
PRS 06...	515	533	289	333	168	201	100	1.507	754	9,6	4,8
PRS 07...	590	608	329	389	196	235	117	1.758	879	11,2	5,6
PRS 08...	665	683	369	444	224	268	133	2.010	1.005	12,8	6,4
PRS 09...	740	758	409	500	251	302	150	2.261	1.130	14,4	7,2
PRS 10...	815	833	449	556	279	335	167	2.512	1.256	16,0	8,0
PRS 11...	890	908	489	611	307	369	183	2.763	1.382	17,6	8,8
PRS 12...	965	983	529	667	335	402	200	3.014	1.507	19,2	9,6
PRS 13...	1.040	1.058	569	722	363	436	217	3.266	1.633	20,8	10,4
PRS 14...	1.115	1.133	609	778	391	469	233	3.517	1.758	22,4	11,2
PRS 15...	1.190	1.208	649	833	419	503	250	3.768	1.884	24,0	12,0
PRS 16...	1.265	1.283	689	889	447	536	267	4.019	2.010	25,6	12,8
PRS 17...	1.340	1.358	729	944	475	570	283	4.270	2.135	27,2	13,6
PRS 18...	1.415	1.433	769	1.000	503	604	300	4.522	2.261	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

Functional Series
PC

Following the philosophy of the PR series we have the PC range, a functional luminaire for indoor environments where water protection is not a prerequisite.

This version is only available with axial input, sufficient for the typical applications for which it has been developed. A multi-purpose luminaire that will fit perfectly into your projects.

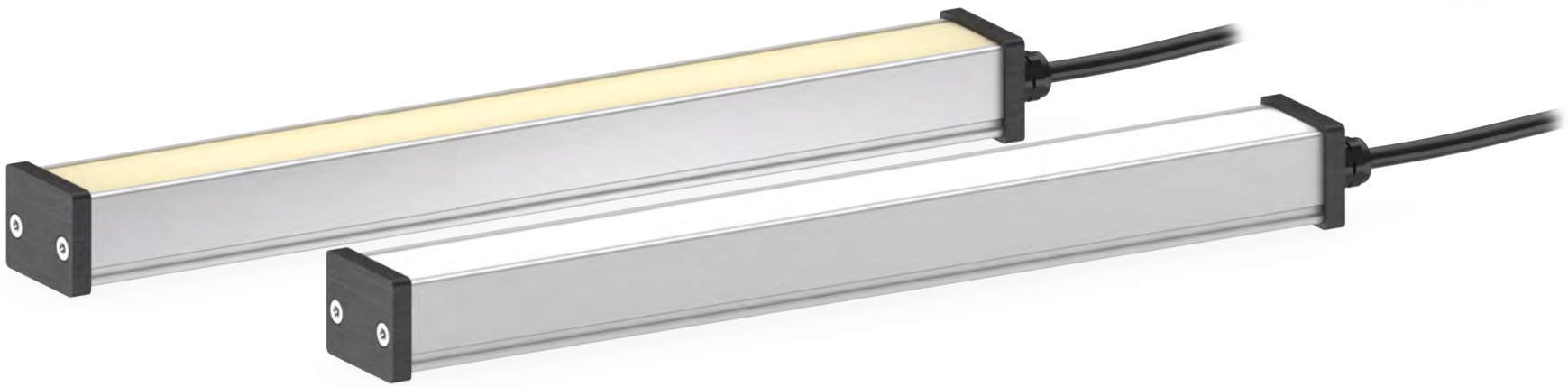
With dual power function for those situations where it is necessary to have courtesy lighting at certain times and more powerful lighting at others.

Various fixing possibilities, from a fixed clamp, multi-position clamp and magnetised clamp. Any of these options will hold the luminaire solidly to the desired surface.

The ideal luminaire for your less restrictive applications.



Functional · PC Series



24 V DC	155 lm/W	NOT CASCADABLE	75 mm INCREMENTAL	FUNCTIONAL	CABLE
POWER 1x ECO 0,5x	IP40	PWM DIMABLE	CLASS III	36 MONTHS	EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	SLA resin	
Diffuser material	Polycarbonate	
Connection types	2m cable	
Standards	RoHs, CE	

Connection

Input Cable	Power	Eco	Dual
Brown	+24 Vdc	+24 Vdc	+24 Vdc
White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Blue	0 Vdc	0 Vdc	0 Vdc
Black	Not connected	Not connected	Not connected

Fixings

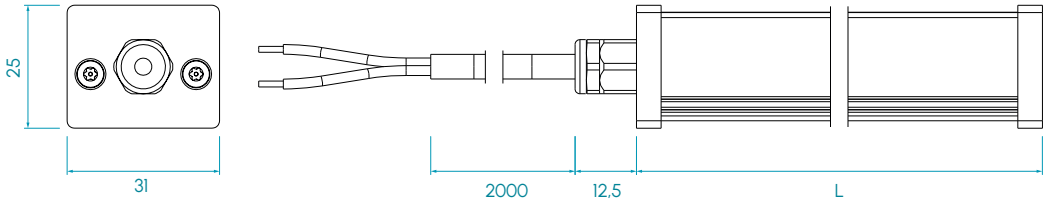
P01G1

PC

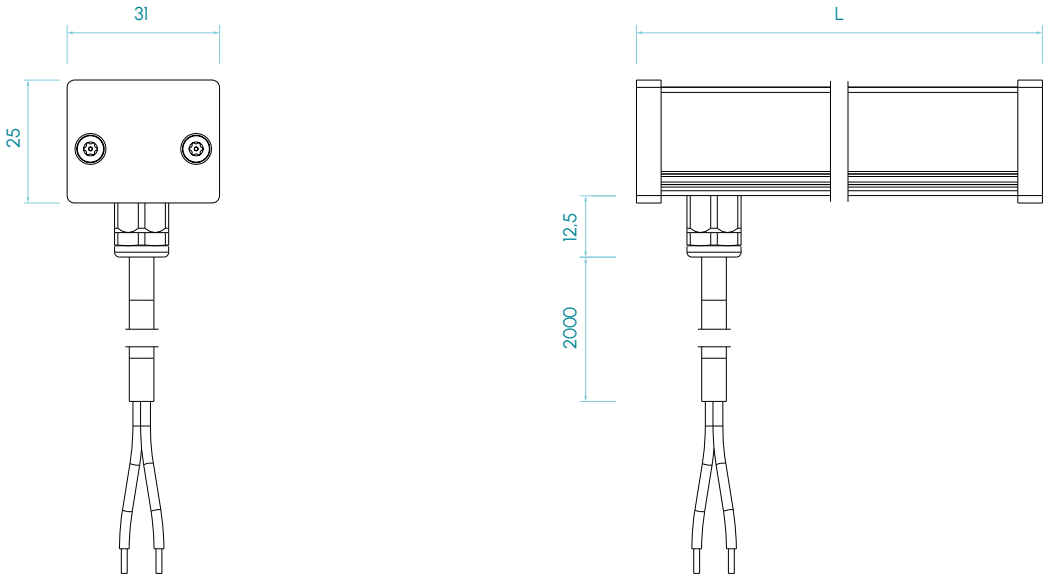


Measures

Axial version



Radial version



Measures in mm

PC

Selection guide

PC 3

Input
- K - Axial cable, 2 m
- KL - Radial cable, 2 m

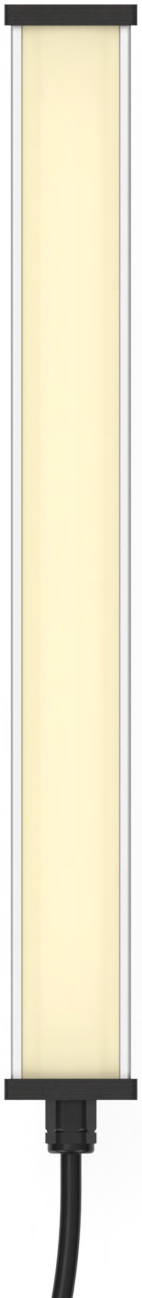
Diffuser
- C - Semidiffuse
- U - Ultradiffuse

Colour temp.
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- P - Power
- E - Eco
- D - Dual: Power/Eco

Length
- 1 - 18 - Módulos de 75 mm

PC Series · Warm white 3000K



3000K
WARM WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 [1] (mm)	Length L2 [1] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [2] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PC 01...	105	123	90	41	21	25	12	195	98	1,6	0,8
PC 02...	180	198	130	82	41	49	25	390	195	3,2	1,6
PC 03...	255	273	170	123	62	74	37	586	293	4,8	2,4
PC 04...	330	348	210	164	82	99	49	781	390	6,4	3,2
PC 05...	405	423	250	205	103	124	61	976	488	8,0	4,0
PC 06...	480	498	290	246	124	148	74	1.171	586	9,6	4,8
PC 07...	555	573	330	287	144	173	86	1.366	683	11,2	5,6
PC 08...	630	648	370	327	165	198	98	1.562	781	12,8	6,4
PC 09...	705	723	410	368	185	222	110	1.757	878	14,4	7,2
PC 10...	780	798	450	409	206	247	123	1.952	976	16,0	8,0
PC 11...	855	873	490	450	226	272	135	2.147	1.074	17,6	8,8
PC 12...	930	948	530	491	247	296	147	2.342	1.171	19,2	9,6
PC 13...	1.005	1.023	570	532	268	321	160	2.538	1.269	20,8	10,4
PC 14...	1.080	1.098	610	573	288	346	172	2.733	1.366	22,4	11,2
PC 15...	1.155	1.173	650	614	309	371	184	2.928	1.464	24,0	12,0
PC 16...	1.230	1.248	690	655	329	395	196	3.123	1.562	25,6	12,8
PC 17...	1.305	1.323	730	696	350	420	209	3.318	1.659	27,2	13,6
PC 18...	1.380	1.398	770	737	371	445	221	3.514	1.757	28,8	14,4

(1) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(2) The luminous flux (lm) is before diffuser.

PC Series · Daylight white 5000K



5000K
DAYLIGHT WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 [1] (mm)	Length L2 [1] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [2] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PC 01...	105	123	90	56	28	34	17	251	126	1,6	0,8
PC 02...	180	198	130	111	56	67	33	502	251	3,2	1,6
PC 03...	255	273	170	167	84	101	50	754	377	4,8	2,4
PC 04...	330	348	210	222	112	134	67	1.005	502	6,4	3,2
PC 05...	405	423	250	278	140	168	83	1.256	628	8,0	4,0
PC 06...	480	498	290	333	168	201	100	1.507	754	9,6	4,8
PC 07...	555	573	330	389	196	235	117	1.758	879	11,2	5,6
PC 08...	630	648	370	444	224	268	133	2.010	1.005	12,8	6,4
PC 09...	705	723	410	500	251	302	150	2.261	1.130	14,4	7,2
PC 10...	780	798	450	556	279	335	167	2.512	1.256	16,0	8,0
PC 11...	855	873	490	611	307	369	183	2.763	1.382	17,6	8,8
PC 12...	930	948	530	667	335	402	200	3.014	1.507	19,2	9,6
PC 13...	1.005	1.023	570	722	363	436	217	3.266	1.633	20,8	10,4
PC 14...	1.080	1.098	610	778	391	469	233	3.517	1.758	22,4	11,2
PC 15...	1.155	1.173	650	833	419	503	250	3.768	1.884	24,0	12,0
PC 16...	1.230	1.248	690	889	447	536	267	4.019	2.010	25,6	12,8
PC 17...	1.305	1.323	730	944	475	570	283	4.270	2.135	27,2	13,6
PC 18...	1.380	1.398	770	1.000	503	604	300	4.522	2.261	28,8	14,4

(1) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(2) The luminous flux (lm) is before diffuser.

Functional · PCS Series



24 V DC

155 lm/W

NOT CASCADABLE

75 mm

INCREMENTAL

FUNCTIONAL

TACTILE

PIR

SWITCH

POWER 1x
ECO 0,5x

IP40

PWM

DIMABLE

CABLE

M12A

CLASS III

36 MONTHS

EU

MADE IN SPAIN

Technical specifications

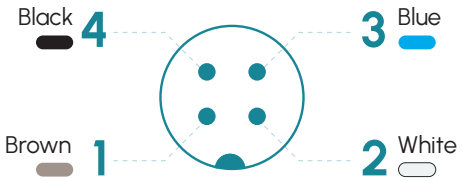
Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
Motion sensor disconnection delay (PIR)	5 min.	
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	SLA resin	
Diffuser material	Polycarbonate	
Connection types	2m cable	
Standards	RoHs, CE	

Connection

Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black (1)	24 Vdc = Power on 0 Vdc = Switched on by motion sensor or touch sensor		

(1) Pin 4 is not connected in the switch version

M12A Male



Fixings

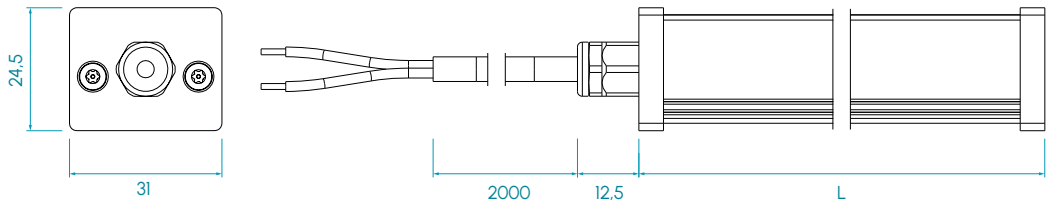
P01G1

PCS

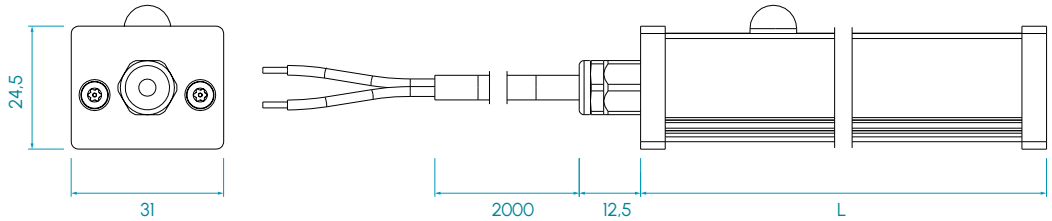


Measures

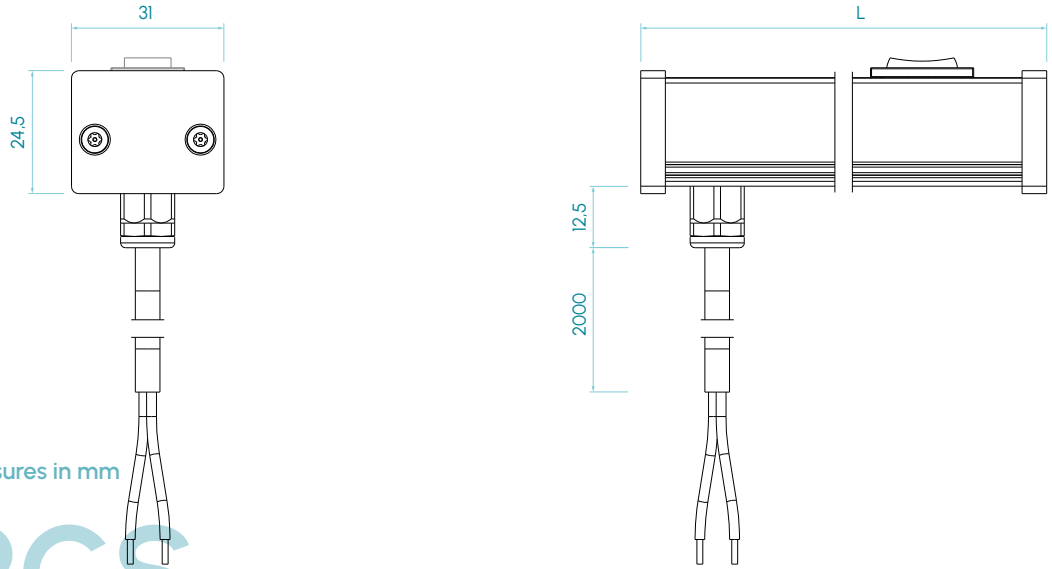
Tactile sensor + M12A axial input



Motion sensor + M12A axial input



Switch + M12A radial input



Measures in mm

PCS

Selection guide

PCS 3

Input
- K - Axial cable, 2 m
- KL - Radial cable, 2 m

Diffuser
- C - Semidiffuse
- U - Ultradiffuse

Colour temp
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- A - Power + movement sensor
- B - Eco + movement sensor
- C - Dual + movement sensor
- F - Power + touch sensor
- G - Eco + touch sensor
- H - Dual + touch sensor
- J - Power + switch
- K - Eco + switch
- M - Dual + switch

Length
- 1 - 18 - 75 mm steps

PCS Series · Warm white 3000K



3000K
WARM WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PCS 01..	105	123	90	41	21	25	12	195	98	1,6	0,8
PCS 02...	180	198	130	82	41	49	25	390	195	3,2	1,6
PCS 03...	255	273	170	123	62	74	37	586	293	4,8	2,4
PCS 04...	330	348	210	164	82	99	49	781	390	6,4	3,2
PCS 05...	405	423	250	205	103	124	61	976	488	8,0	4,0
PCS 06...	480	498	290	246	124	148	74	1.171	586	9,6	4,8
PCS 07...	555	573	330	287	144	173	86	1.366	683	11,2	5,6
PCS 08...	630	648	370	327	165	198	98	1.562	781	12,8	6,4
PCS 09...	705	723	410	368	185	222	110	1.757	878	14,4	7,2
PCS 10...	780	798	450	409	206	247	123	1.952	976	16,0	8,0
PCS 11...	855	873	490	450	226	272	135	2.147	1.074	17,6	8,8
PCS 12...	930	948	530	491	247	296	147	2.342	1.171	19,2	9,6
PCS 13...	1.005	1.023	570	532	268	321	160	2.538	1.269	20,8	10,4
PCS 14...	1.080	1.098	610	573	288	346	172	2.733	1.366	22,4	11,2
PCS 15...	1.155	1.173	650	614	309	371	184	2.928	1.464	24,0	12,0
PCS 16...	1.230	1.248	690	655	329	395	196	3.123	1.562	25,6	12,8
PCS 17...	1.305	1.323	730	696	350	420	209	3.318	1.659	27,2	13,6
PCS 18...	1.380	1.398	770	737	371	445	221	3.514	1.757	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

PCS Series · Daylight white 5000K



5000K
DAYLIGHT WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 [2] (mm)	Length L2 [2] (mm)	Weight (g)	Illuminance Ev (lx) @ 1m				Luminous flux [3] (lm)		Power consumed (W)	
				SEMIDIFFUSE		ULTRADIFFUSE					
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PCS 01..	105	123	90	56	28	34	17	251	126	1,6	0,8
PCS 02...	180	198	130	111	56	67	33	502	251	3,2	1,6
PCS 03...	255	273	170	167	84	101	50	754	377	4,8	2,4
PCS 04...	330	348	210	222	112	134	67	1.005	502	6,4	3,2
PCS 05...	405	423	250	278	140	168	83	1.256	628	8,0	4,0
PCS 06...	480	498	290	333	168	201	100	1.507	754	9,6	4,8
PCS 07...	555	573	330	389	196	235	117	1.758	879	11,2	5,6
PCS 08...	630	648	370	444	224	268	133	2.010	1.005	12,8	6,4
PCS 09...	705	723	410	500	251	302	150	2.261	1.130	14,4	7,2
PCS 10...	780	798	450	556	279	335	167	2.512	1.256	16,0	8,0
PCS 11...	855	873	490	611	307	369	183	2.763	1.382	17,6	8,8
PCS 12...	930	948	530	667	335	402	200	3.014	1.507	19,2	9,6
PCS 13...	1.005	1.023	570	722	363	436	217	3.266	1.633	20,8	10,4
PCS 14...	1.080	1.098	610	778	391	469	233	3.517	1.758	22,4	11,2
PCS 15...	1.155	1.173	650	833	419	503	250	3.768	1.884	24,0	12,0
PCS 16...	1.230	1.248	690	889	447	536	267	4.019	2.010	25,6	12,8
PCS 17...	1.305	1.323	730	944	475	570	283	4.270	2.135	27,2	13,6
PCS 18...	1.380	1.398	770	1.000	503	604	300	4.522	2.261	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.
(3) The luminous flux (lm) is before diffuser.

Functional Series
FR & FRX

The FR and FRX series is characterised by a robust luminaire, but especially by a high light output. If you are looking for a high-performance, durable and aesthetically appealing luminaire, you are in the right place.

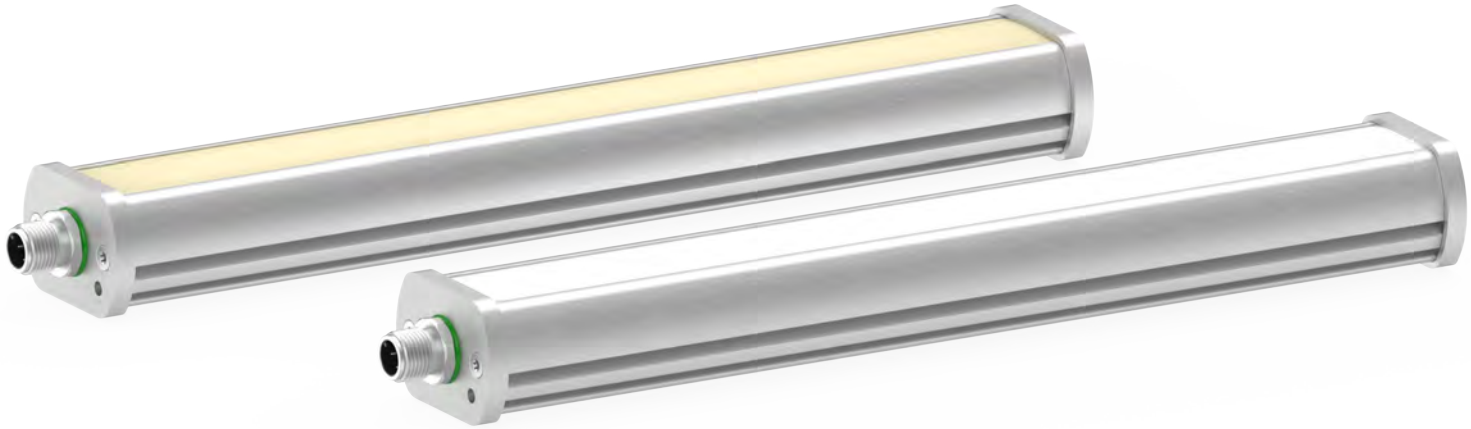
Given its high power and with its different types of connections, sealing and fixings, you can use it in a multitude of applications. Especially used to illuminate outdoor and indoor spaces where a lot of light is needed, without having to worry about environmental conditions, the FR series will always give you maximum performance and durability.

You can place this luminaire both in a workplace, whose powerful and neutral light will make the activity more productive, or in your home by choosing the warm shade specially designed for residential interiors.

In addition, if you are not sure whether you need a lot of light power, you can choose from our FR range of luminaires the dual version, which allows you to switch between the two available wattages.



Functional · FR Series



24 V DC	155 lm/W	NOT CASCADABLE	75 mm INCREMENTAL	FUNCTIONAL	CABLE M12A
POWER 1x ECO 0,5x	IP40 IP65	PWM DIMABLE	CLASS III	36 MONTHS	EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M12A Male



Fixings

F01G1, F00R1, M6D16

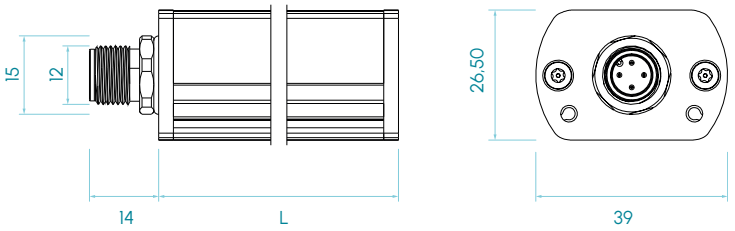


FR

Measures

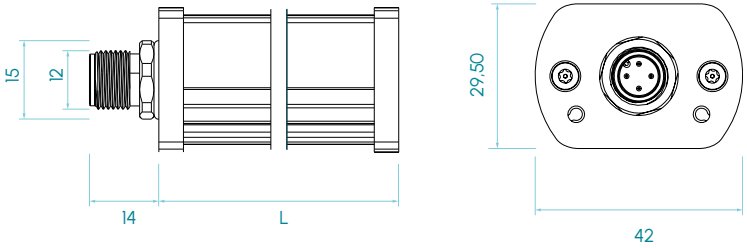
IP40

M12A axial version



IP65

M12A axial version



Measures in mm

FR

Selection guide

FR

Input
- **K** - Axial cable, 2 m
- **Y** - M12A axial male connector
- **PY** - 10 cm axialcable with M12A male connector

Diffuser
- **C** - Semidiffuse
- **U** - Ultradiffuse

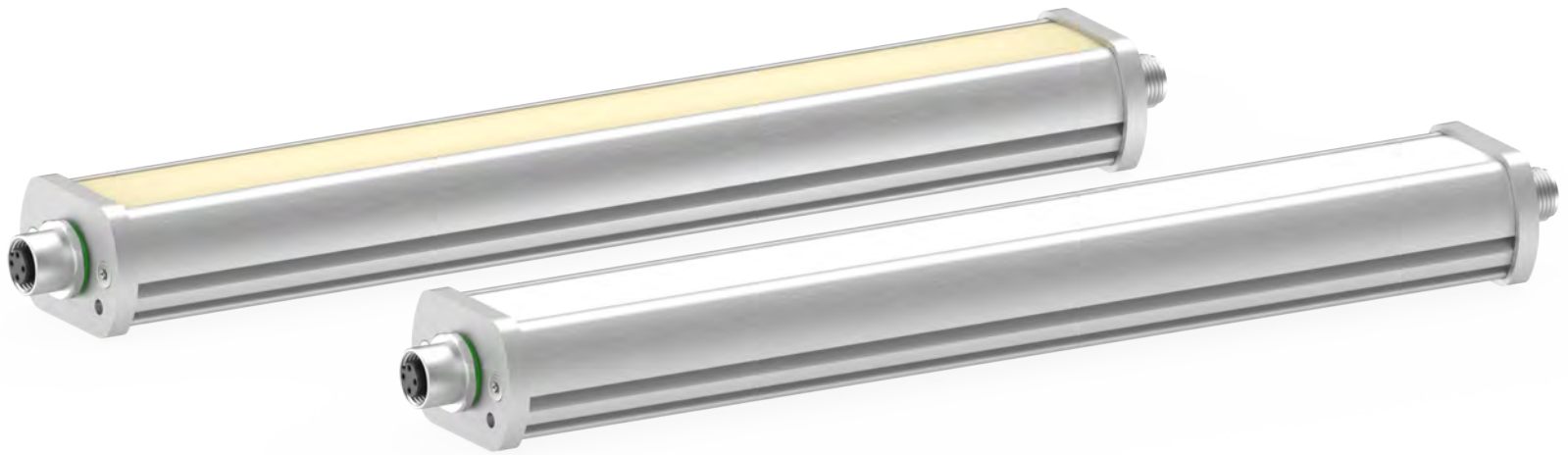
IP Rating
- **3** - IP40
- **5** - IP65

Colour temp.
- **W** - Warm white 3000K
- **D** - Daylight white 5000K

Working mode
- **P** - Power
- **E** - Eco
- **D** - Dual: Power / Eco

Length
- **1 - 18** - 75 mm steps

Functional · FRX Series



24 V
DC

155
lm/W

CASCADABLE

75 mm
INCREMENTAL

FUNCTIONAL

CABLE
M12A

POWER 1x
ECO 0,5x

IP40
IP65

PWM
DIMABLE

III
CLASS III

36
MONTHS

EU
MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules (1)	Power = 37	Eco = 74
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.

Connection

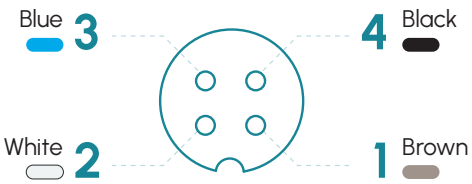
Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

Output M12A	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Same as Pin 2 input
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

M12A Male



M12A Female



Fixings

F01G1, F00R1, M6D16

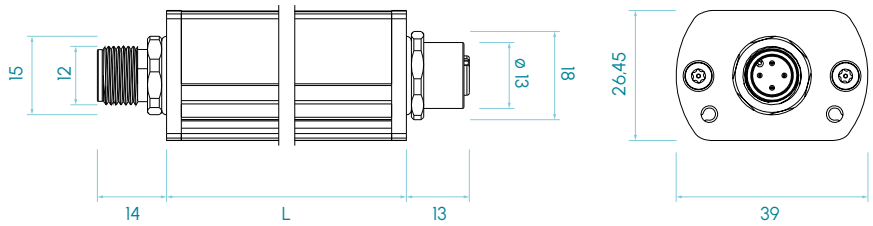
FRX



Measures

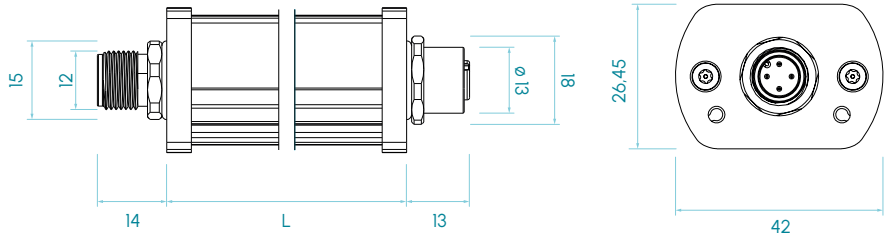
IP40

M12A axial version



IP65

M12A axial version



Measures in mm

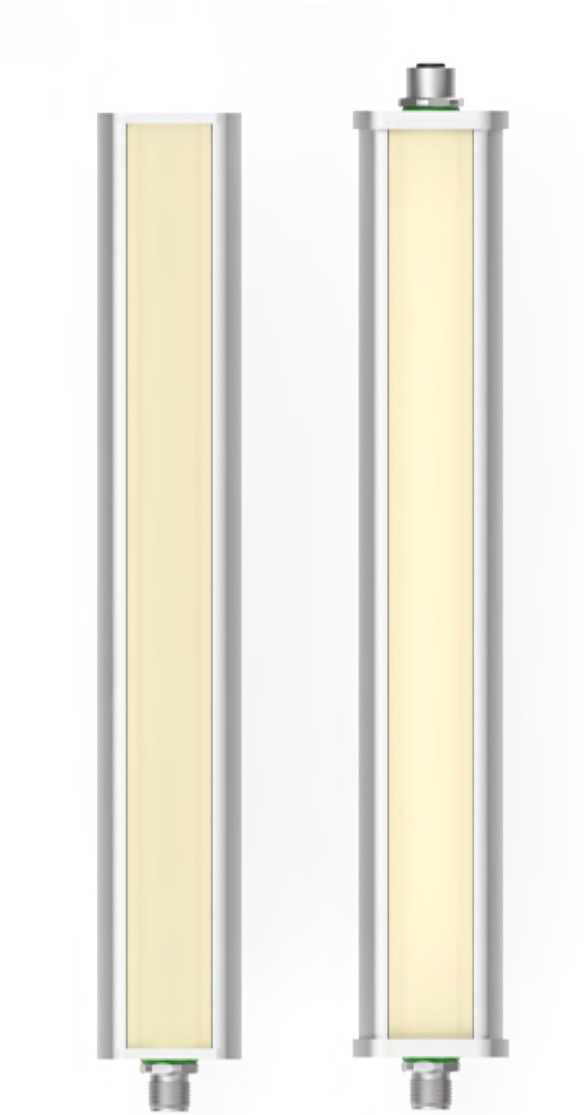
FRX

Selection guide

FRX

- **Output**
  - Y - M12A axial female connector
  - PY - 10 cm axial cable with M12A female connector
- **Input**
  - K - Axial cable, 2 m
  - Y - M12A axial male connector
  - PY - 10 cm axial cable with M12A male connector
- **Diffuser**
  - C - Semidiffuse
  - U - Ultradiffuse
- **IP Rating**
  - 3 - IP40
  - 5 - IP65
- **Colour temp**
  - W - Warm white 3000K
  - D - Neutral white 5000K
- **Working mode**
  - P - Power
  - E - Eco
  - D - Dual: Power/Eco
- **Length**
  - 1 - 18 - 75 mm steps

FR & FRX Series · Warm white 3000K



FR FRX

3000K
WARM WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

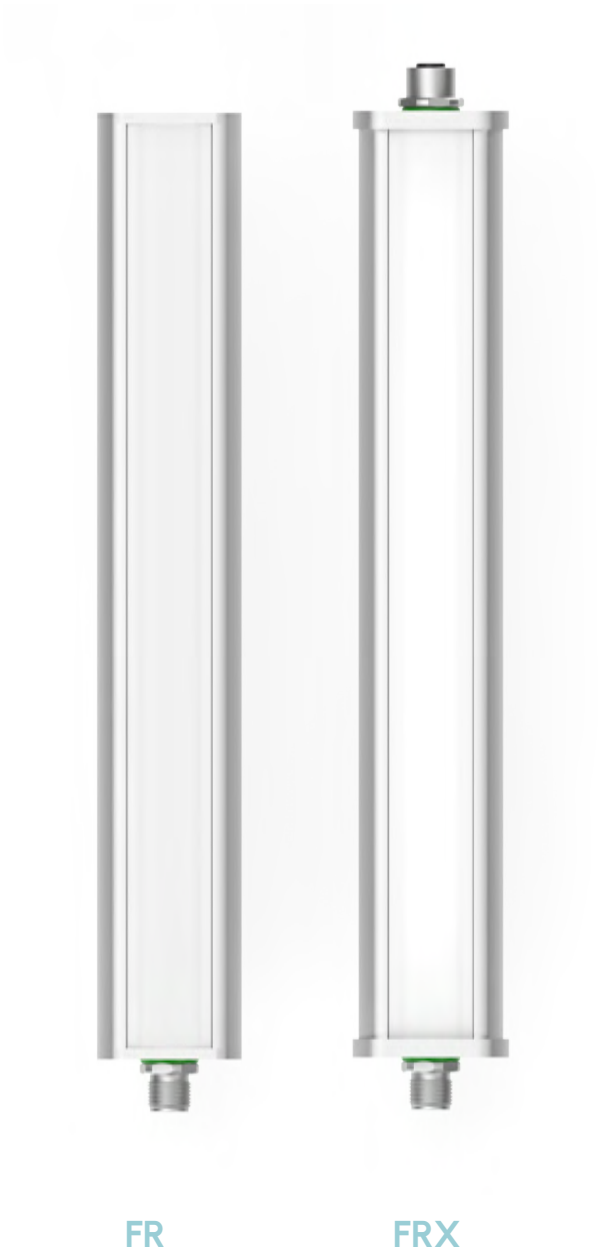
60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Iluminancia Ev (lx) @ 1 m				Luminous flux (2) (lm)		Power consumed (W)	
			SEMIDIFFUSE		ULTRADIFFUSE					
			POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
FR/FRX 01...	105	224	65	37	39	22	278	139	2,4	1,2
FR/FRX 02...	180	344	130	74	77	44	557	278	4,8	2,4
FR/FRX 03...	255	464	195	110	116	66	835	418	7,2	3,6
FR/FRX 04...	330	584	260	147	155	88	1.114	557	9,6	4,8
FR/FRX 05...	405	704	324	184	194	110	1.392	696	12,0	6,0
FR/FRX 06...	480	824	389	221	232	132	1.670	835	14,4	7,2
FR/FRX 07...	555	944	454	258	271	154	1.949	974	16,8	8,4
FR/FRX 08...	630	1.064	519	295	310	176	2.227	1.114	19,2	9,6
FR/FRX 09...	705	1.184	584	331	349	198	2.506	1.253	21,6	10,8
FR/FRX 10...	780	1.304	649	368	387	220	2.784	1.392	24,0	12,0
FR/FRX 11...	855	1.424	714	405	426	242	3.062	1.531	26,4	13,2
FR/FRX 12...	930	1.544	779	442	465	263	3.341	1.670	28,8	14,4
FR/FRX 13...	1.005	1.664	844	479	504	285	3.619	1.810	31,2	15,6
FR/FRX 14...	1.080	1.784	908	515	542	307	3.898	1.949	33,6	16,8
FR/FRX 15...	1.155	1.904	973	552	581	329	4.176	2.088	36,0	18,0
FR/FRX 16...	1.230	2.024	1.038	589	620	351	4.454	2.227	38,4	19,2
FR/FRX 17...	1.305	2.144	1.103	626	659	373	4.733	2.366	40,8	20,4
FR/FRX 18...	1.380	2.264	1.168	663	697	395	5.011	2.506	43,2	21,6

(2) The luminous flux (lm) is before the diffuser

FR & FRX Series · Daylight white 5000K



FR FRX

5000K
DAYLIGHT WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

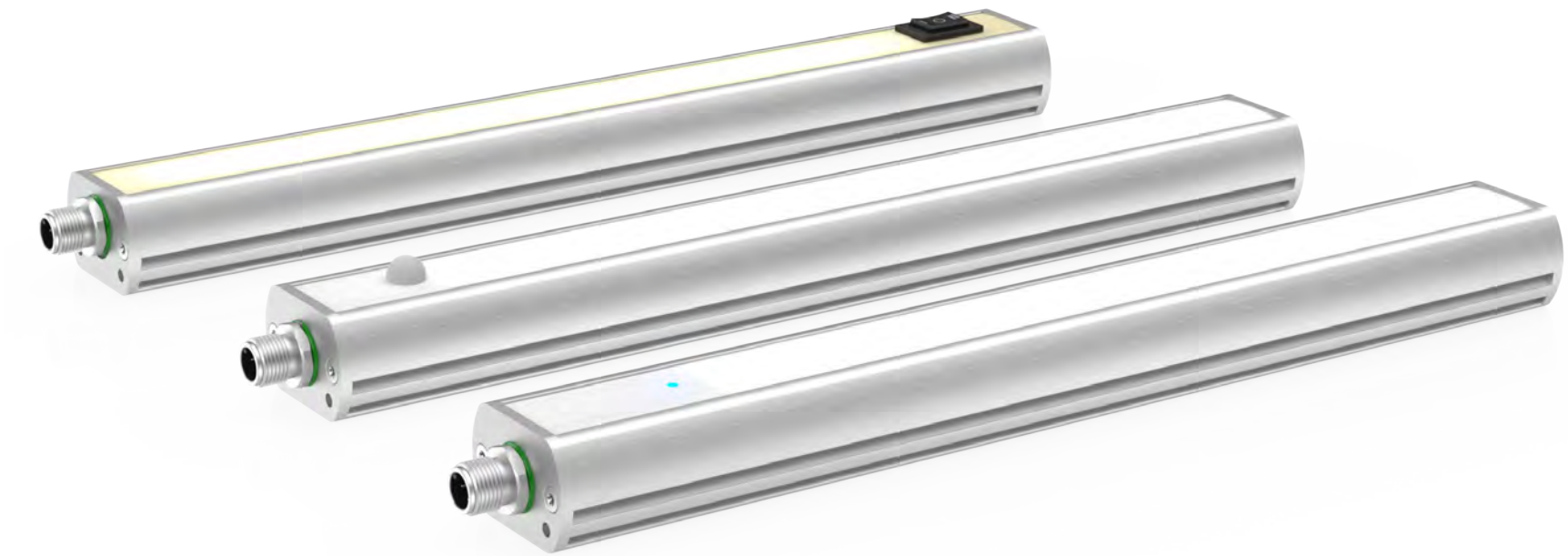
60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Iluminancia Ev (lx) @ 1 m				Luminous flux (2) (lm)		Power consumed (W)	
			SEMIDIFFUSE		ULTRADIFFUSE					
			POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
FR/FRX 01...	105	224	88	50	53	30	372	186	2,4	1,2
FR/FRX 02...	180	344	176	100	105	60	744	372	4,8	2,4
FR/FRX 03...	255	464	264	150	158	89	1.116	558	7,2	3,6
FR/FRX 04...	330	584	352	200	210	119	1.488	744	9,6	4,8
FR/FRX 05...	405	704	440	250	263	149	1.860	930	12,0	6,0
FR/FRX 06...	480	824	528	300	315	179	2.232	1.116	14,4	7,2
FR/FRX 07...	555	944	616	350	368	209	2.604	1.302	16,8	8,4
FR/FRX 08...	630	1.064	705	400	421	238	2.976	1.488	19,2	9,6
FR/FRX 09...	705	1.184	793	450	473	268	3.348	1.674	21,6	10,8
FR/FRX 10...	780	1.304	881	500	526	298	3.720	1.860	24,0	12,0
FR/FRX 11...	855	1.424	969	550	578	328	4.092	2.046	26,4	13,2
FR/FRX 12...	930	1.544	1.057	600	631	358	4.464	2.232	28,8	14,4
FR/FRX 13...	1.005	1.664	1.145	650	684	387	4.836	2.418	31,2	15,6
FR/FRX 14...	1.080	1.784	1.233	699	736	417	5.208	2.604	33,6	16,8
FR/FRX 15...	1.155	1.904	1.321	749	789	447	5.580	2.790	36,0	18,0
FR/FRX 16...	1.230	2.024	1.409	799	841	477	5.952	2.976	38,4	19,2
FR/FRX 17...	1.305	2.144	1.497	849	894	507	6.324	3.162	40,8	20,4
FR/FRX 18...	1.380	2.264	1.585	899	946	536	6.696	3.348	43,2	21,6

(2) The luminous flux (lm) is before the diffuser

Functional · FRS Series



24 V DC

155 lm/W

NOT CASCADABLE

75 mm

INCREMENTAL

FUNCTIONAL

TACTILE

PIR

SWITCH

POWER 1x
ECO 0,5x

IP40

PWM
DIMABLE

CABLE
M12A

CLASS III

36 MONTHS

EU
MADE IN SPAIN

Technical specifications

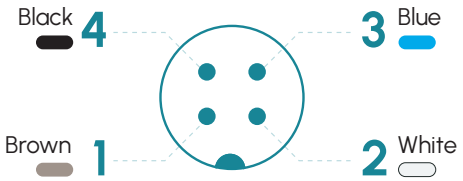
Power supply voltage	24 Vdc ±5%	
Luminous efficiency	Warm white Daylight white	125 lm/W 155 lm/W
Motion sensor disconnection delay (PIR)	5 min.	
Wavelength	Warm white Daylight white	3000K 5000K
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Colour Rendering Index (CRI)	Warm white Daylight white	≥ 90 ≥ 80
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version ECO version	-10°C to +40°C -10°C to +50°C
Storage temperature	0°C a +60°C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black (1)	24 Vdc = Power on 0 Vdc = Switched on by motion sensor or touch sensor		

(1) Pin 4 is not connected in the switch version

M12A Male



Fixings

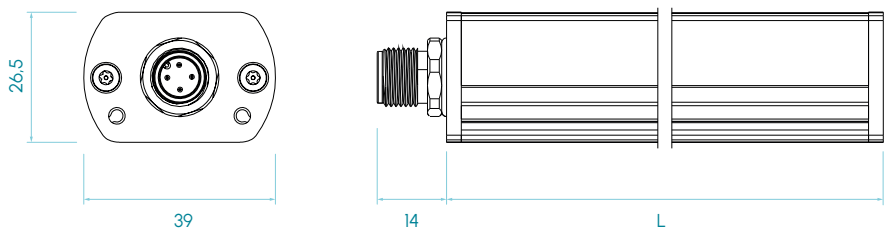
F01G1, F00R1, M6D16

FRS

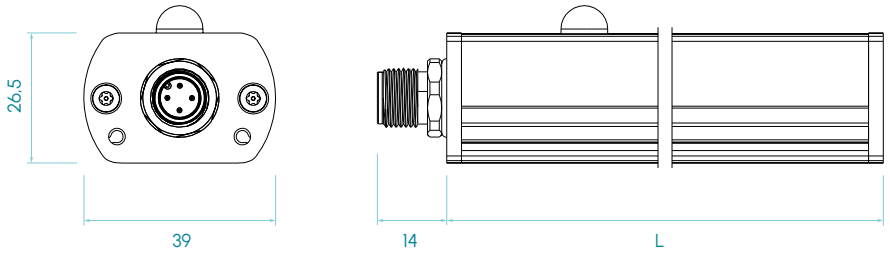


Measures

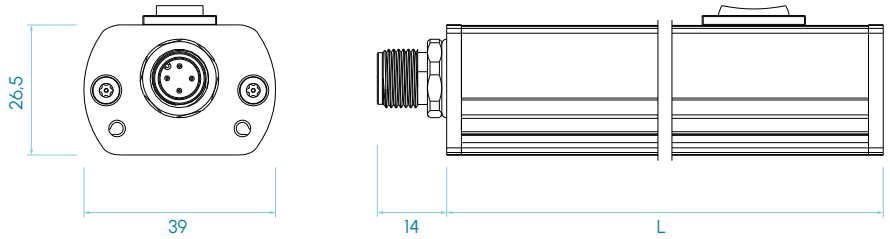
Tactile sensor + M12A axial input



Motion sensor + M12A axial input



Switch + M12A radial input



Measures in mm

Selection guide

FRS 3

Input
- K - Axial cable, 2 m
- Y - M12A axial male connector
- PY - 10 cm axial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse

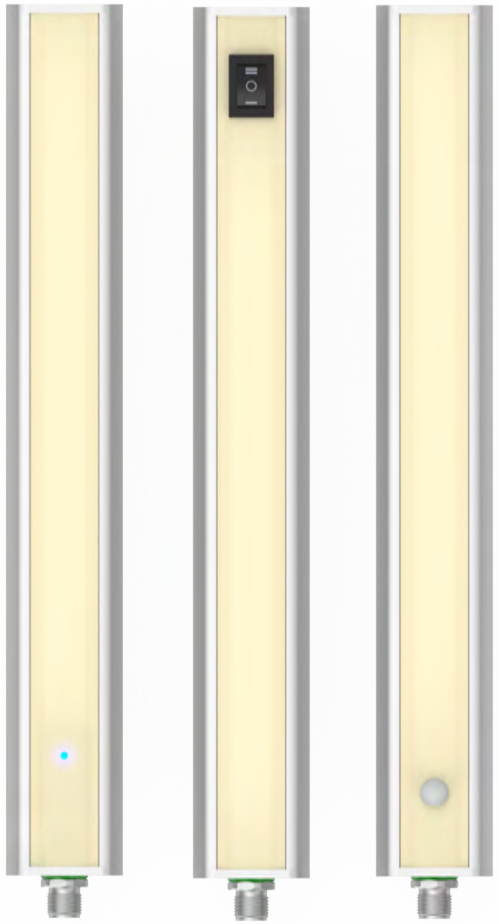
Colour temp.
- W - Warm white 3000K
- D - Daylight white 5000K

Working mode
- A - Power + movement sensor
- B - Eco + movement sensor
- C - Dual + movement sensor
- F - Power + touch sensor
- G - Eco + touch sensor
- H - Dual + touch sensor
- J - Power + switch
- K - Eco + switch
- M - Dual + switch

Length
- 1 - 18 - 75 mm steps

FRS

FRX Series · Warm white 3000K



3000K
WARM WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

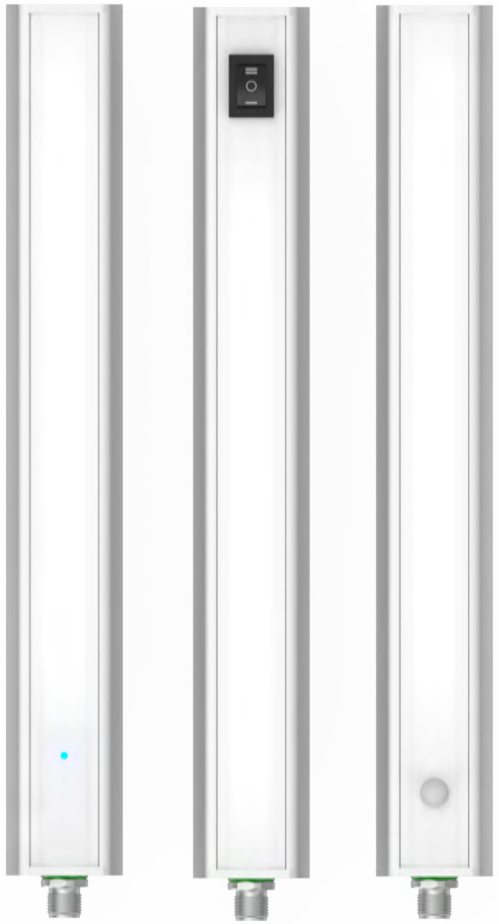
60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Illuminance Ev (lx) @ 1 m				Luminous flux (2) (lm)		Power consumed (W)	
			SEMIDIFFUSE		ULTRADIFFUSE					
			POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
FRS 01...	140	240	65	37	39	22	278	139	2,4	1,2
FRS 02...	215	280	130	74	77	44	557	278	4,8	2,4
FRS 03...	290	320	195	110	116	66	835	418	7,2	3,6
FRS 04...	365	360	260	147	155	88	1.114	557	9,6	4,8
FRS 05...	440	400	324	184	194	110	1.392	696	12,0	6,0
FRS 06...	515	440	389	221	232	132	1.670	835	14,4	7,2
FRS 07...	590	480	454	258	271	154	1.949	974	16,8	8,4
FRS 08...	665	520	519	295	310	176	2.227	1.114	19,2	9,6
FRS 09...	740	560	584	331	349	198	2.506	1.253	21,6	10,8
FRS 10...	815	600	649	368	387	220	2.784	1.392	24,0	12,0
FRS 11...	890	640	714	405	426	242	3.062	1.531	26,4	13,2
FRS 12...	965	680	779	442	465	263	3.341	1.670	28,8	14,4
FRS 13...	1.040	720	844	479	504	285	3.619	1.810	31,2	15,6
FRS 14...	1.115	760	908	515	542	307	3.898	1.949	33,6	16,8
FRS 15...	1.190	800	973	552	581	329	4.176	2.088	36,0	18,0
FRS 16...	1.265	840	1.038	589	620	351	4.454	2.227	38,4	19,2
FRS 17...	1.340	880	1.103	626	659	373	4.733	2.366	40,8	20,4
FRS 18...	1.415	920	1.168	663	697	395	5.011	2.506	43,2	21,6

(2) The luminous flux (lm) is before the diffuser

FRS Series · Daylight White 5000K



5000K
DAYLIGHT WHITE

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 (mm)	Weight (g)	Illuminance Ev (lx) @ 1 m				Luminous flux (2) (lm)		Power consumed (W)	
			SEMIDIFFUSE		ULTRADIFFUSE					
			POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
FRS 01...	140	240	88	50	53	30	372	186	2,4	1,2
FRS 02...	215	280	176	100	105	60	744	372	4,8	2,4
FRS 03...	290	320	264	150	158	89	1.116	558	7,2	3,6
FRS 04...	365	360	352	200	210	119	1.488	744	9,6	4,8
FRS 05...	440	400	440	250	263	149	1.860	930	12,0	6,0
FRS 06...	515	440	528	300	315	179	2.232	1.116	14,4	7,2
FRS 07...	590	480	616	350	368	209	2.604	1.302	16,8	8,4
FRS 08...	665	520	705	400	421	238	2.976	1.488	19,2	9,6
FRS 09...	740	560	793	450	473	268	3.348	1.674	21,6	10,8
FRS 10...	815	600	881	500	526	298	3.720	1.860	24,0	12,0
FRS 11...	890	640	969	550	578	328	4.092	2.046	26,4	13,2
FRS 12...	965	680	1.057	600	631	358	4.464	2.232	28,8	14,4
FRS 13...	1.040	720	1.145	650	684	387	4.836	2.418	31,2	15,6
FRS 14...	1.115	760	1.233	699	736	417	5.208	2.604	33,6	16,8
FRS 15...	1.190	800	1.321	749	789	447	5.580	2.790	36,0	18,0
FRS 16...	1.265	840	1.409	799	841	477	5.952	2.976	38,4	19,2
FRS 17...	1.340	880	1.497	849	894	507	6.324	3.162	40,8	20,4
FRS 18...	1.415	920	1.585	899	946	536	6.696	3.348	43,2	21,6

(2) The luminous flux (lm) is before the diffuser



Signaling

It is true that luminaires for artificial and functional vision applications are the order of the day in the industrial, commercial and residential sectors. However, at Lumher we anticipate the needs of our customers and, below, we will introduce you to our exclusive range of beacons that can meet all your lighting needs.

Our passion for innovation and quality means that every product we design and manufacture aims to exceed our customers' expectations, standing out for its exceptional quality and performance, and using cutting-edge technology that guarantees intense brightness and long life, always offering an amazing visual experience.

Quality is a priority in our manufacturing process. Each product undergoes rigorous quality control testing to ensure durability and energy efficiency, which also contributes to a lower environmental impact.

Our highly trained team is committed to customer satisfaction and is always ready to provide you with the best advice to find the perfect luminaire for your specific needs.

In short, our dedication to innovation, exceptional performance, unsurpassed quality and customer service make us the ideal choice for all your signage lighting solutions. Discover our products and let us light up your world in a bright and colourful way.

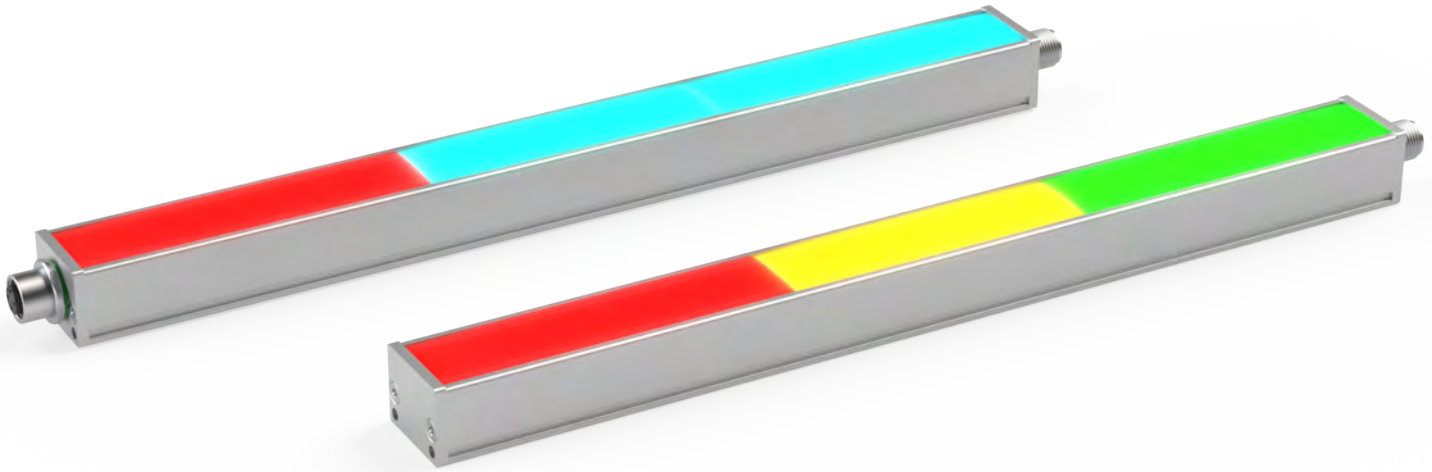
Beacon

Lumher beacons are the PB and PBX series. These luminaires stand out for their versatility, performance and, above all, quality. As most of their features are configurable, we allow you to create the luminaire to your liking. You can choose the length, the number of colours, the IP protection and the wiring of both the input and output of the luminaire.

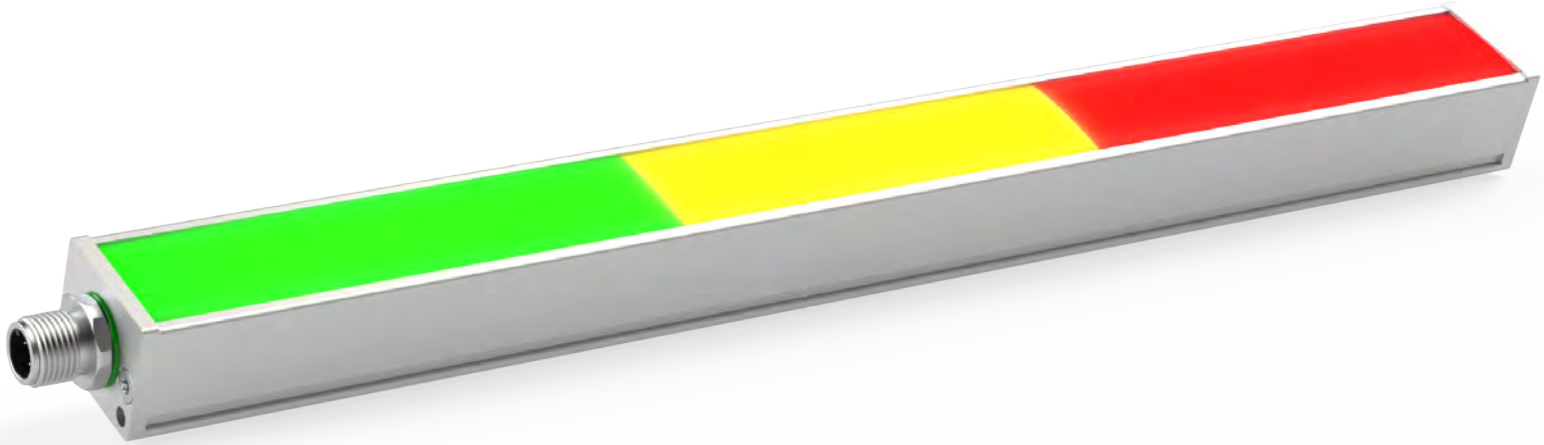
With a compact and elegant design, its small size makes it ideal for installations with limited space without sacrificing its powerful light output. Our beacons feature RGB LED technology, so they are available in a wide range of colours, always in combinations of primary colours: red, green and blue.

If you get your hands on one of our beacons you can be sure that it will function correctly and stably throughout its lifetime. We achieve this thanks to a robust design in which we employ both mechanical and electronic protections.

In addition, their electrical and light output will always be constant, thus avoiding the need for more expensive power supplies with high output voltage stability.



Beacon · PB Series



24 V DC

PWM DIMABLE

NOT CASCADABLE

M12A

7 COLORS

MACHINE VISION

SIGNALING

IP40 IP65

CLASS III

36 MONTHS

EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

Connection

Input M12A - Cable	Power
Pin 1 - Brown	+24 Vdc (1st section)
Pin 2 - White	+24 Vdc (2nd section)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (3rd section)

M12A Male



Fixings

P01G1, P00R1, M6D16

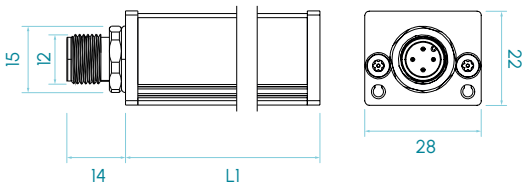


PB

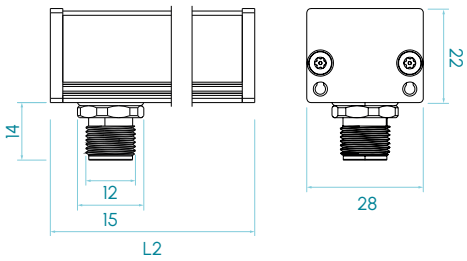
Measures

IP40

M12A axial version

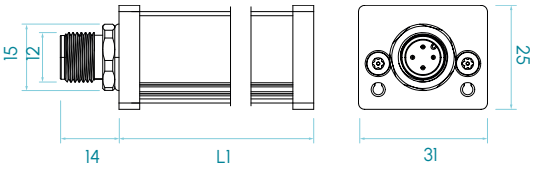


M12A radial version

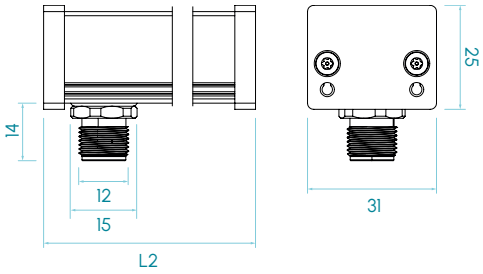


IP65

M12A axial version



M12A radial version



Measures in mm

PB

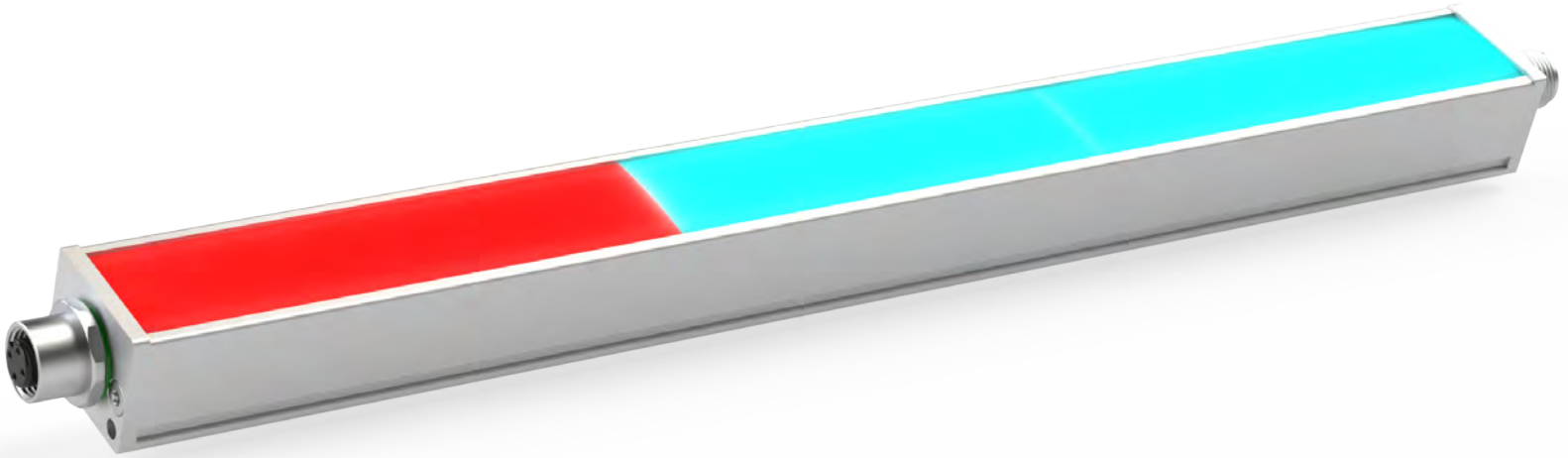
Selection guide

PB

- Input
  - K - Axial cable, 2 m
  - KL - Radial cable, 2 m
  - Y - M12A axial male connector
  - YL - M12A radial male connector
  - PY - 10 cm axial cable with M12A male connector
  - RY - 10 cm radial cable with M12A male connector
- Diffuser
  - C - Semidiffuse
  - U - Ultradiffuse
- IP Rating
  - 3 - IP40
  - 5 - IP65
- Color 3rd section: 0, R, G, B, Y, C, M or W (1)
- Long. 3rd section: 0, 1, ... 9 - 90 mm steps (1) (2)
- Color 2nd section: 0, R, G, B, Y, C, M or W (1)
- Long. 2nd section: 0, 1, ... 9 - 90 mm steps (1) (2)
- Color 1st section: 0, R, G, B, Y, C, M or W (1)
- Long. 1st section: 0, 1, ... 9 - 90 mm steps (1) (2)

(1) 0 indicates that this section is inactive and does not occupy space.
(2) The total number of modules in the three sections may not exceed 15.

Beacon · PBX Series



24 V DC

PWM DIMABLE

CASCADABLE

M12A

7 COLORS

MACHINE VISION

SIGNALING

IP40 IP65

CLASS III

36 MONTHS

EU MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc ±5%	
Polarity	Positiva PNP (common: 0 Vdc)	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Max. number of cascadable modules	44 modules	
Electrical protections	Transient overvoltages Polarity reversal Current sabilizer	YES YES YES
Beam angle	Semidiffuse Ultradiffuse	60° 110°
Wavelength	R = 625 nm G = 520 nm B = 465 nm	
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 °C to +40 °C	
Storage temperature	0°C to +60 °C	
Max. relative humidity	80% (without condensation)	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

(1) The number representing the length of the luminaire is the number of modules it has.

Connection

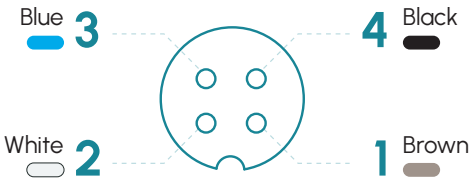
Input M12A - Cable	Power
Pin 1 - Brown	+24 Vdc (1st section)
Pin 2 - White	+24 Vdc (2nd section)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (3rd section)

Output M12A - Cable	Power
Pin 1 - Brown	+24 Vdc (1st section)
Pin 2 - White	+24 Vdc (2nd section)
Pin 3 - Blue	0 Vdc
Pin 4 - Black	+24 Vdc (3rd section)

M12A Male



M12A Female



Fixings

P01G1, P00R1, M6D16

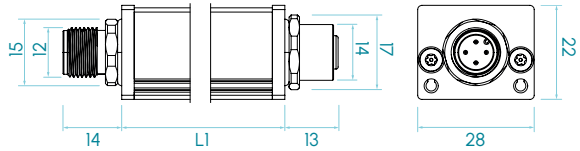
PBX



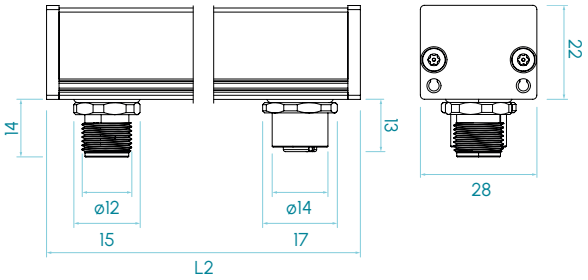
Measures

IP40

M12A axial version

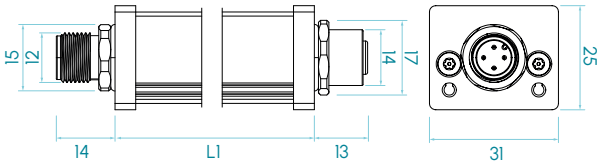


M12A radial version

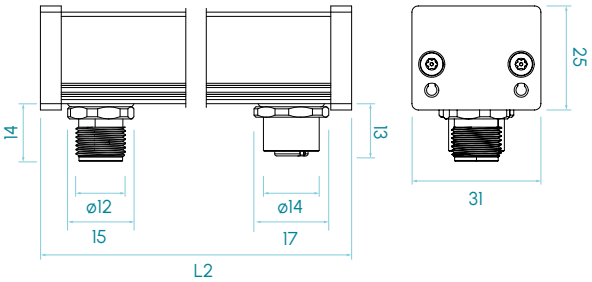


IP65

M12A axial version



M12A radial version



Measures in mm

PBX

Selection guide

PBX

Output
- Y - M12A axial female connector
- YL - M12A radial female connector
- PY - 10 cm axial cable with M12A female connector
- RY - 10 cm radial cable with M12A female connector

Input
- K - Axial cable, 2 m
- KL - Radial cable, 2 m
- Y - M12A axial male connector
- YL - M12A radial male connector
- PY - 10 cm axial cable with M12A male connector
- RY - 10 cm radial cable with M12A male connector

Diffuser
- C - Semidiffuse
- U - Ultradiffuse

IP Rating
- 3 - IP40
- 5 - IP65

Color 3rd section: 0, R, G, B, Y, C, M or W (2)

Long. 3rd section: 0, 1, ... 9 - 90 mm steps (2) (3)

Color 2nd section: 0, R, G, B, Y, C, M or W (2)

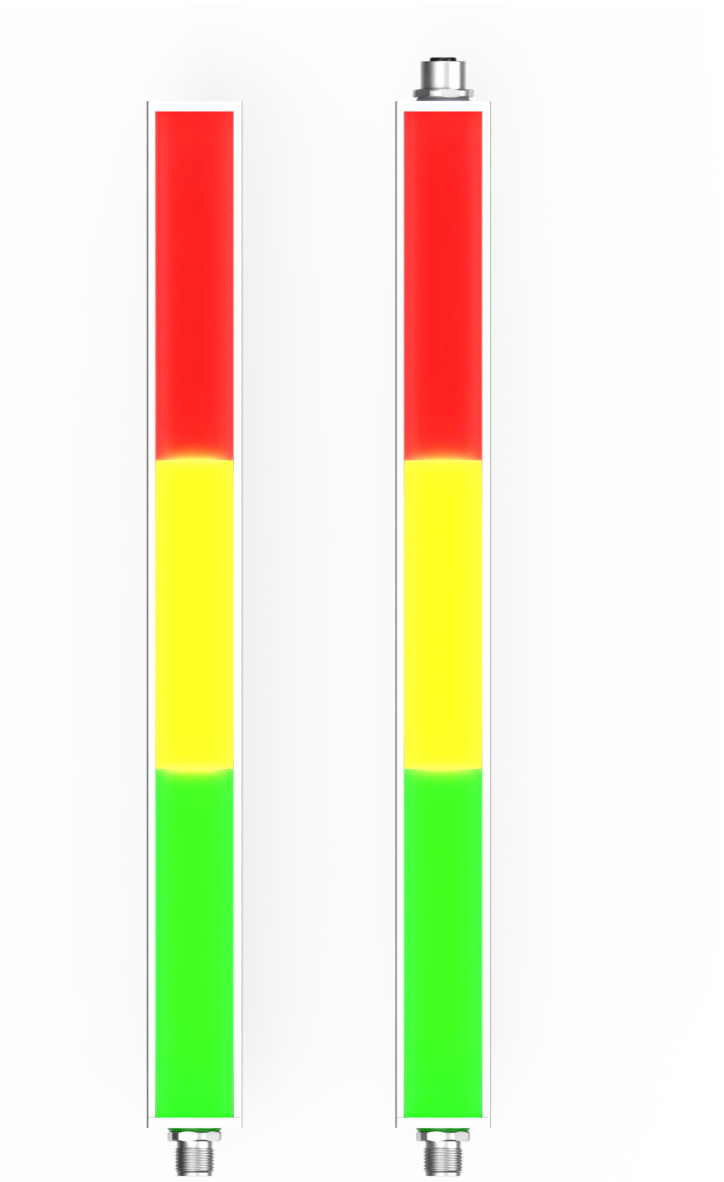
Long. 2nd section: 0, 1, ... 9 - 90 mm steps (2) (3)

Color 1st section: 0, R, G, B, Y, C, M or W (2)

Long. 1st section: 0, 1, ... 9 - 90 mm steps (2) (3)

(2) 0 indicates that this section is inactive and does not occupy space.
(3) The total number of modules in the three sections may not exceed 15.

Model Beacon · PB / PBX



PB PBX

7 COLORS

SEMIDIFFUSE 60°

ULTRADIFFUSE 110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

	Length L1 (4) (mm)	Length L2 (4) (mm)	Weight (g)
PB/PBX (1 step)	120	138	97
PB/PBX (2 steps)	210	228	145
PB/PBX (3 steps)	300	318	193
PB/PBX (4 steps)	390	408	241
PB/PBX (5 steps)	480	498	289
PB/PBX (6 steps)	570	588	337
PB/PBX (7 steps)	660	678	385
PB/PBX (8 steps)	750	768	433
PB/PBX (9 steps)	840	858	481
PB/PBX (10 steps)	930	948	529
PB/PBX (11 steps)	1.020	1.038	577
PB/PBX (12 steps)	1.110	1.128	625
PB/PBX (13 steps)	1.200	1.218	673
PB/PBX (14 steps)	1.290	1.308	721
PB/PBX (15 steps)	1.380	1.398	769

	Luminous flux (5) (lm)			Power consumed (W)
	R	G	B	
1 module R (red)	10	0	0	0,6
1 module G (green)	0	26	0	0,6
1 module B (blue)	0	0	7	0,6
1 module Y (yellow)	10	26	0	1,2
1 module C (cian)	0	26	7	1,2
1 module M (magenta)	10	0	7	1,2
1 module W (white)	10	26	7	1,8

(4) Versions with radial input and/or output will have as length L2, the rest will be L1.
(5) The luminous flux (lm) is before diffuser.



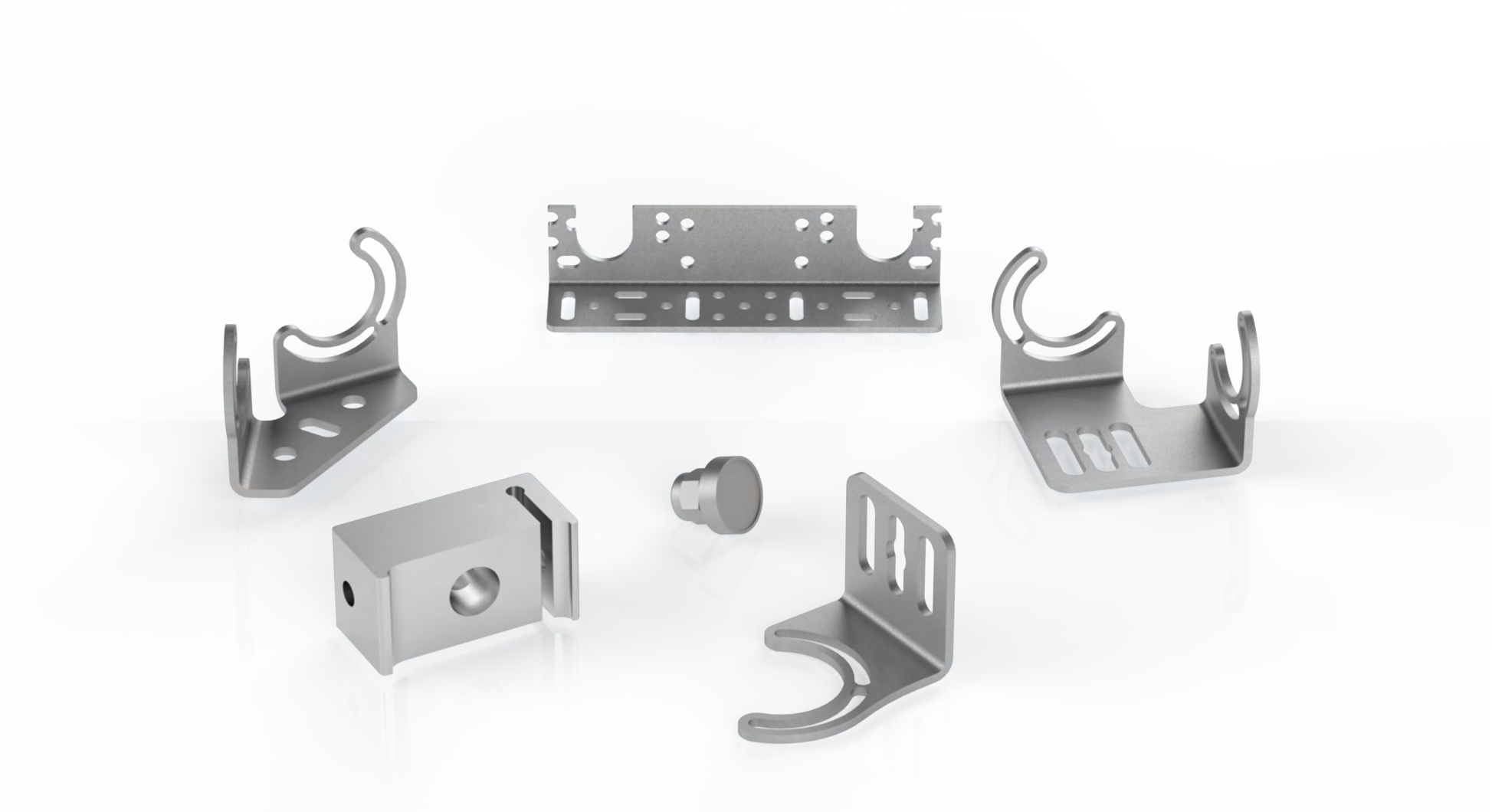
Customised lighting designs

Creating your own LED lighting allows you to deepen your understanding of the technology and gain valuable knowledge and skills, potentially exploring innovation and developing unique lighting solutions to suit your specific industrial processes. This level of customisation can give you a competitive advantage and allow you to differentiate your operations from others in the industry.

Please contact us via the contact form so that we can understand your needs and provide you with a solution accordingly.

Accessories

The design of functional anchoring elements is one of the hallmarks of the Lumher brand, which is why we have mounting elements for all our luminaires made of stainless steel, plastic and resin suitable for all types of projects and environments.

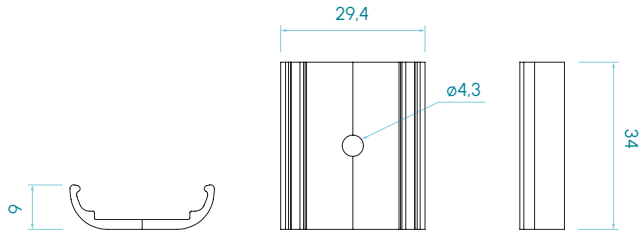


Clamps, Fixings and brackets

S Series - Plastic fastening clamps



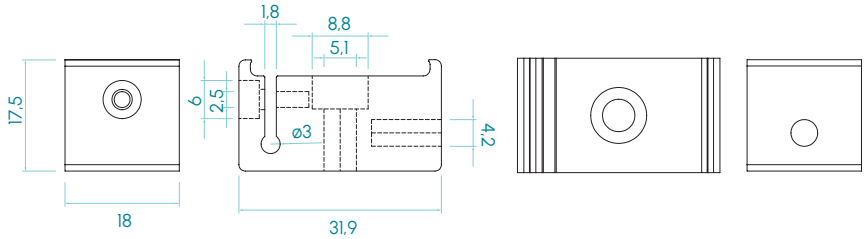
Part number	S00G2
Material	Resin
Orientation	Fixed at 0°
Packaging unit	2 units



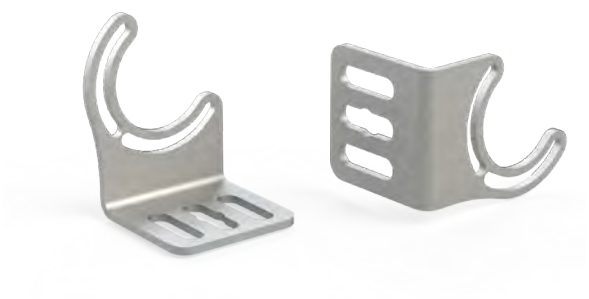
P Series - Aluminium fastening clamps



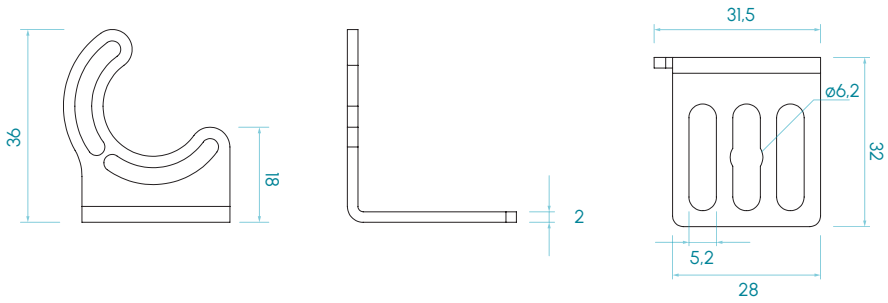
Part number	P01G1
Material	Aluminium
Orientation	Fixed at 0°
Packaging unit	2 units



P Series - Rotary fixings

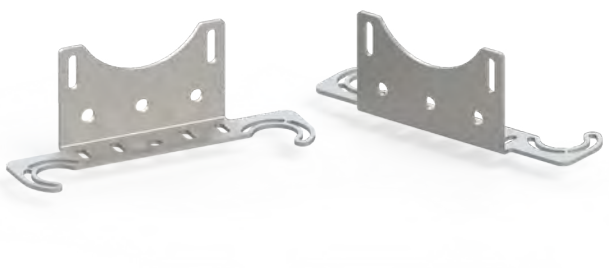


Part number	P00R1
Material	Stainless steel
Fixed orientation	0° & 90°
Variable orientation	0° to 90°
Compatible with M6D16	
Packaging unit	2 units (left + right)

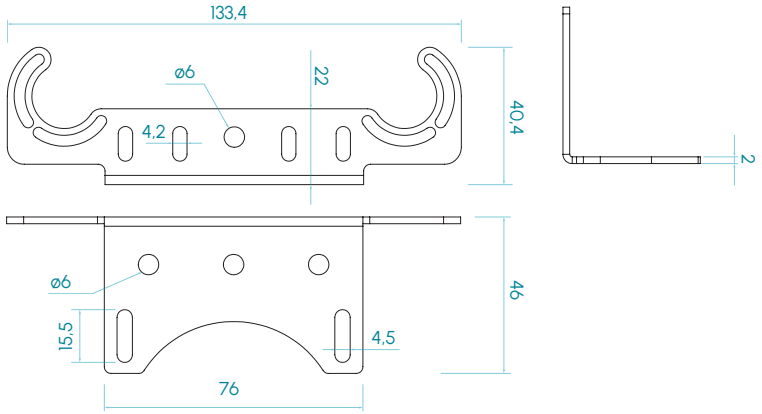


Dimensions in mm

P Series - Double Bar Rotary fixing



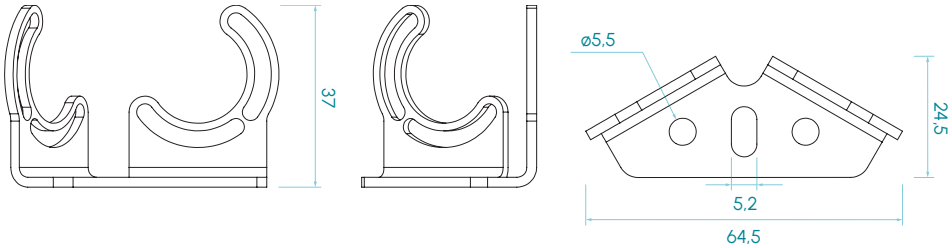
Part number	P00R2
Material	Stainless steel
Fixed orientation	0° & 90°
Variable orientation	0° to 90°
Packaging unit	2 units (symmetrical)



P Series - 60° double rotating fixings



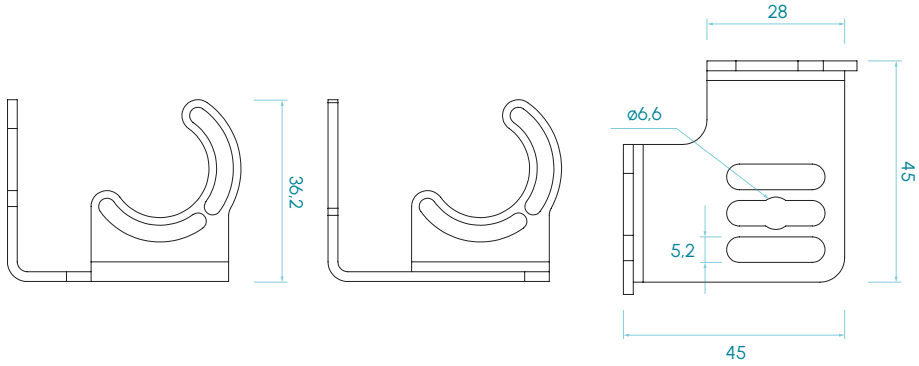
Part number	P00R3
Material	Stainless steel
Fixed orientation	0° & 90°
Variable orientation	0° to 90°
Packaging unit	3 units



P Series - 90° double rotating fixings



Part number	P00R4
Material	Stainless steel
Fixed orientation	0° & 90°
Variable orientation	0° to 90°
Compatible with M6D16	
Packaging unit	2 units (left + right)

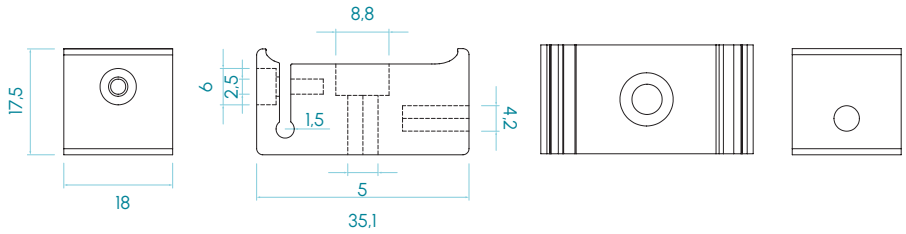


Dimensions in mm

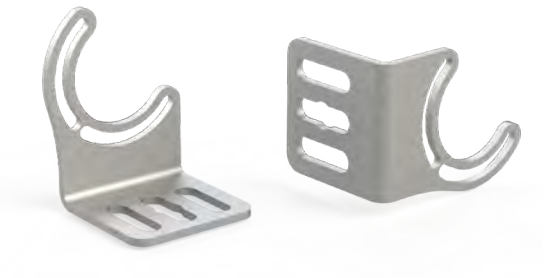
F Series - Aluminium fastening clamps



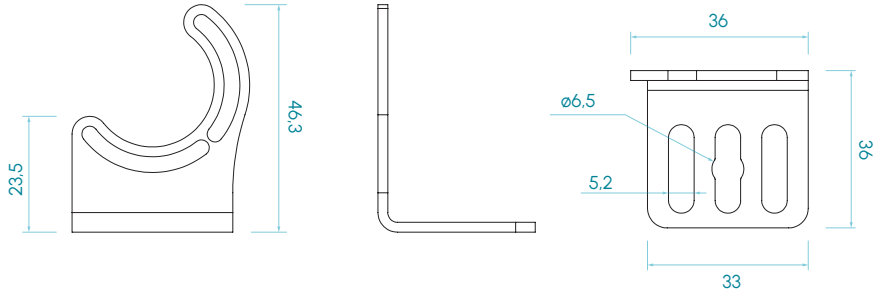
Part number	F01G1
Material	Aluminium
Orientation	Fixed at 0°
Packaging unit	2 units



F Series - Rotary fixings



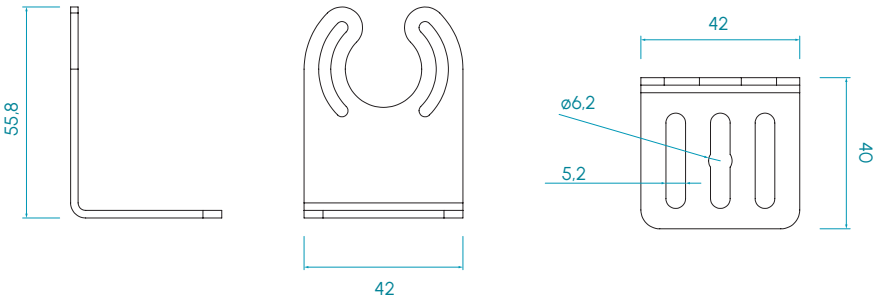
Part number	F00R1
Material	Stainless steel
Fixed orientation	0° & 90°
Variable orientation	0° to 90°
Compatible with M6D16	
Packaging unit	2 units (left + right)



G Series - Rotary fixings



Part number	G00R1
Material	Stainless steel
Fixed orientation	-90° & 90°
Variable orientation	-90° to 90°
Compatible with M6D16	
Packaging unit	2 units (left + right)

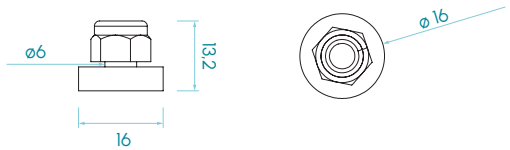


Dimensions in mm

Magnet ø16 mm



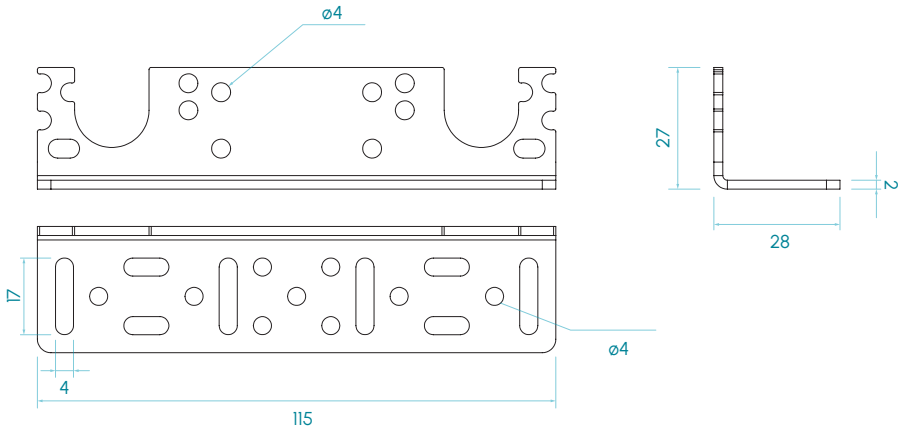
Part number	M6D16
Material	Stainless steel + neodymium
Compatibilidad	P00R1, P00R4, F00R1
Packaging unit	2 units



B and R Series - Lateral fixings



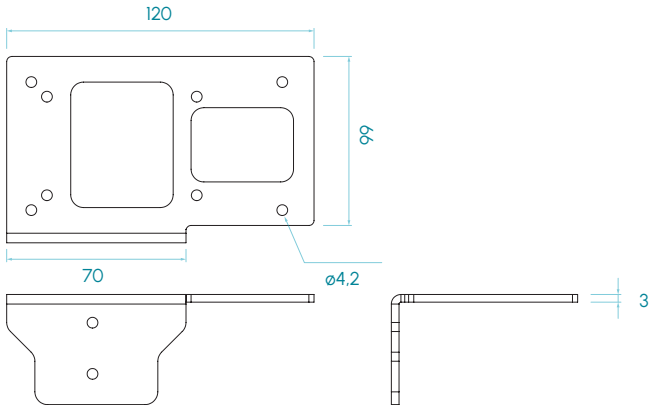
Part number	B00S1
Material	Stainless steel
Fixed orientation	0° & 90°
Packaging unit	1 unit



Fixing for Cognex 5000, 7000 Series cameras



Part number	C00C1
Material	Stainless steel
Fixed orientation	90°
Packaging unit	1 unit

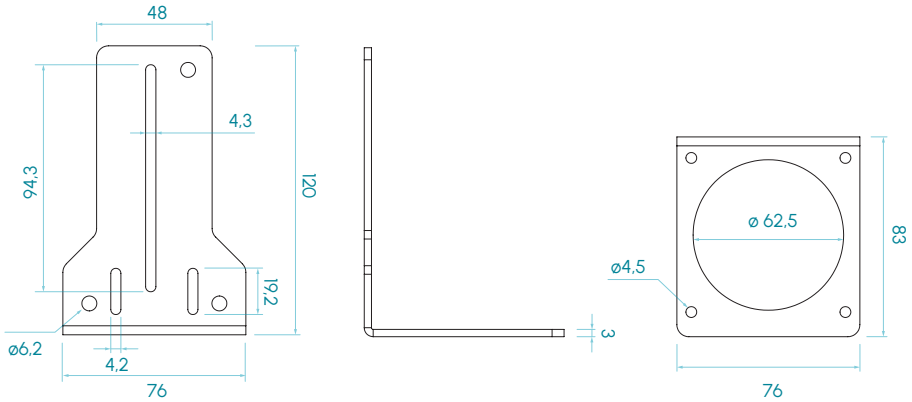


Dimensions in mm

Fixing for Sensopart cameras



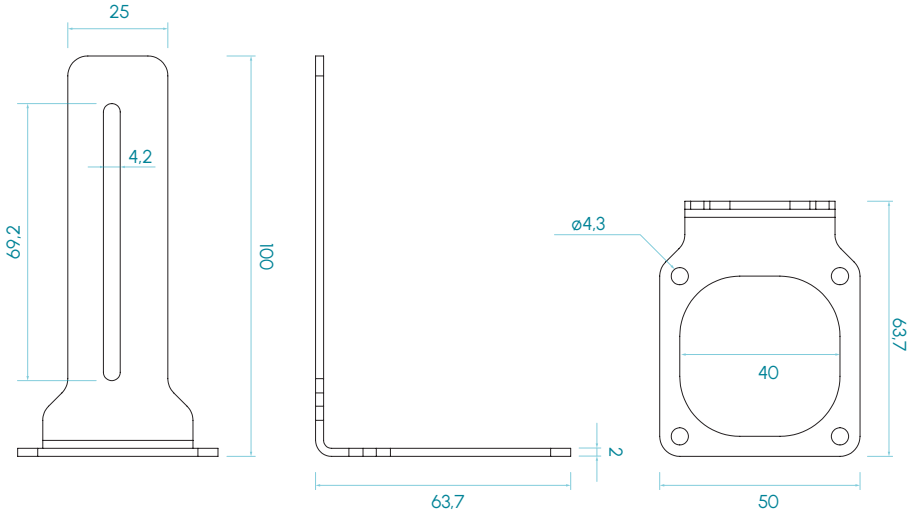
Part number	C00S1
Material	Stainless steel
Fixed orientation	90°
Variable feed rate	0 - 80 mm.
Packaging unit	1 unit



Sensopart camera fixing for Dome



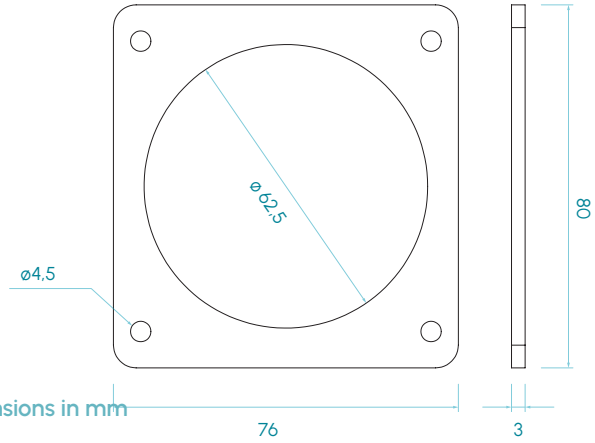
Part number	C00S2
Material	Stainless steel
Fixed orientation	90°
Variable feed rate	0 - 80 mm.
Packaging unit	1 unit



Universal flat camera fixing



Part number	C00F1
Material	Stainless steel
Packaging unit	1 unit



Dimensions in mm

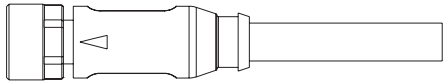
Connectors

M8A Cable - Female



Part number	1.5 m	M8A4VF015M
	5 m	M8A4VF050M
	10 m	M8A4VF100M
M12A	4 pins	
Connector	Female straight	
Material	Insulating PVC	





M12A Cable - Female



Part number	1.5 m	M12A4PF015M
	5 m	M12A4PF050M
	10 m	M12A4PF100M
M12A	4 pins	
Connector	Female straight	
Material	Insulating PVC	

