Linear · PDX Series Infrared 850 nm

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24 V
DC

MASTER
SLAVE

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	Power = 48	Strobe = 12
Wavelength	Infrared	850 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.

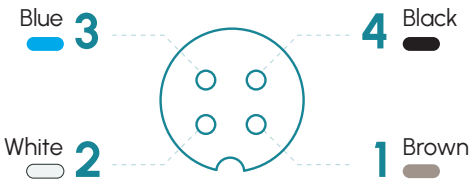
Connection

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

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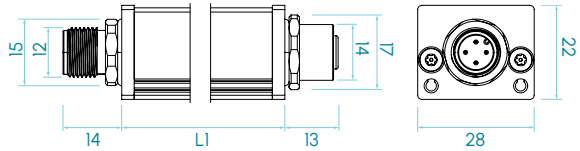
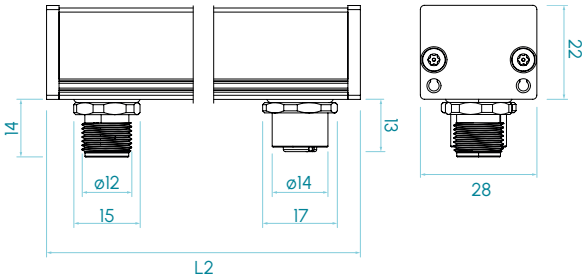
Measures

IP40

M12A axial version

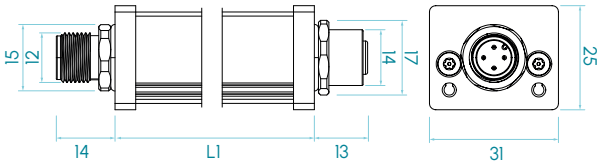


M12A radial version

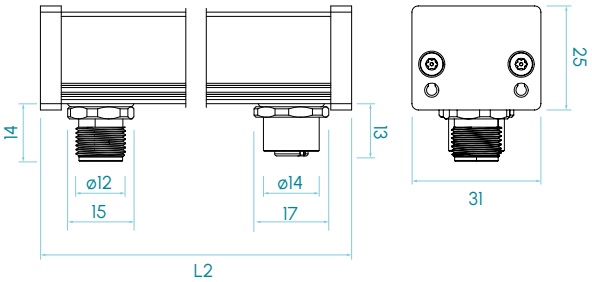


IP65

M12A axial version



M12A radial version



Measures in mm

Selection guide

PDX F

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

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

Length
- 1 - 15 - 90 mm steps

PDX · 850 nm

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Model PDX · Infrared 850 nm

PDX

850nm
INFRARED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL RISK
RG1 - LOW

60.000h
LIFESPAN

Table of characteristics

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

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

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