

Linear · FD SERIES Infrared 850 nm

lumher



24 V
DC

MASTER
SLAVE

NOT
CASCADABLE

90 mm
INCREMENTAL

CABLE
M12A

MACHINE VISION

CONTINUOUS 1x
STROBE 2x

INTEGRATED
CONTROLLER

IP40
IP65

36
MONTHS

MADE IN SPAIN

Technical specifications

Power supply voltage	24 Vdc $\pm$ 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	Infrared	850 nm
Beam angle	Semidiffuse	60°
	Ultradiffuse	110°
Electrical protections	Transient overvoltages	YES
	Polarity reversal	YES
	Current sabitizer	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

F00G2, F00G4, F00R1, M6D16

FD · 850 nm

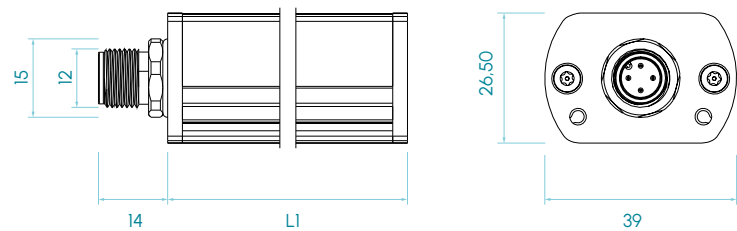


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Measures

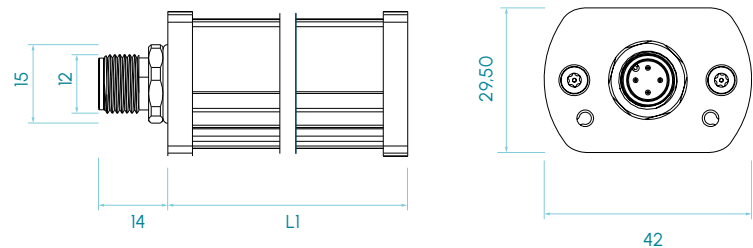
IP40

M12A axial version



IP65

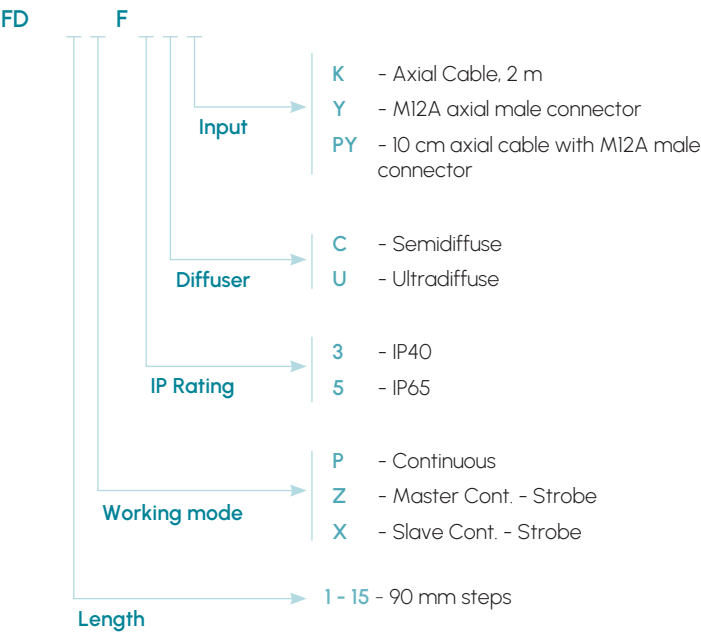
M12A axial version



Measures in mm

FD · 850 nm

Selection guide



Model FD · Infrared 850 nm



FD

850nm

INFRARED

SEMIDIFFUSE
60°

ULTRADIFFUSE
110°

PHOTOBIOLOGICAL
RISK

RG1 - LOW

60.000h

LIFESPAN

Table of characteristics

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

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