

# Linear · FDX SERIES Infrared 850 nm

lumher



24 V  
DC

MASTER  
SLAVE



CASCADABLE



INCREMENTAL

CABLE  
M12A



MACHINE VISION

POWER 1x  
STROBE 2x



INTEGRATED  
CONTROLLER

IP40  
IP65

36  
MONTHS



MADE IN SPAIN

## Technical specifications

Power supply voltage	24 Vdc ±5%	
Trigger input	24 Vdc PNP	
Max. on time	Power = unlimited	Strobe = 10 ms
Max. working cycle	Power = 1	Strobe = 1/6
Max. number of cascable modules <sup>(1)</sup>	Power = 48	Strobe = 24
Wavelength	Infrared 850 nm	
Angle of aperture	Semidiffuse Ultradiffuse	60° 110°
Electrical protections	Transient overvoltages Polarity reversal Current stabilizer	YES YES YES
IP Rating	IP40 o IP65	
Protection type	Class III	
Operating temperature	-10 a +40 °C	
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

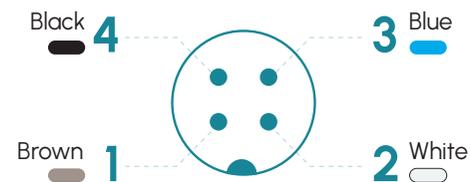
(1) The number representing the length of the luminaire is the number of modules it has.

## Connection

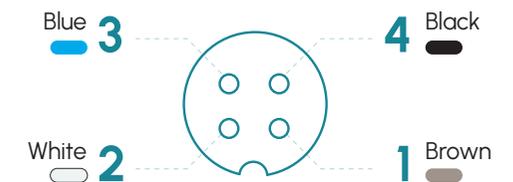
M12A input - Cable	Power	Master Power - Strobe	Slave Power - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Trigger PNP	Signal IN - a

M12A output	Power	Master Power - Strobe	Slave Power - Strobe
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	No signal	No signal	Not connected
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	No signal	Signal OUT - a	Signal OUT - a

### M12A Male



### M12A Female



## Fixings

F00G2, F00G4, F00R1, M6D16

# FDX · 850 nm

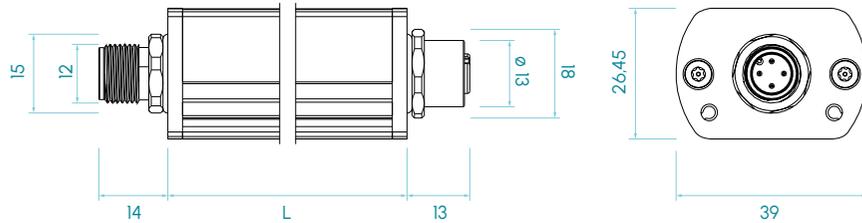


# lumher

## Measures

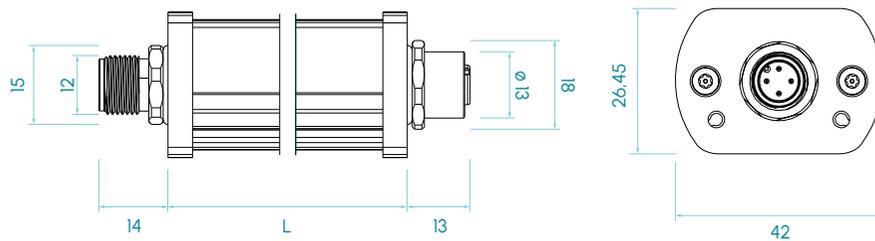
IP40

M12A axial version



IP65

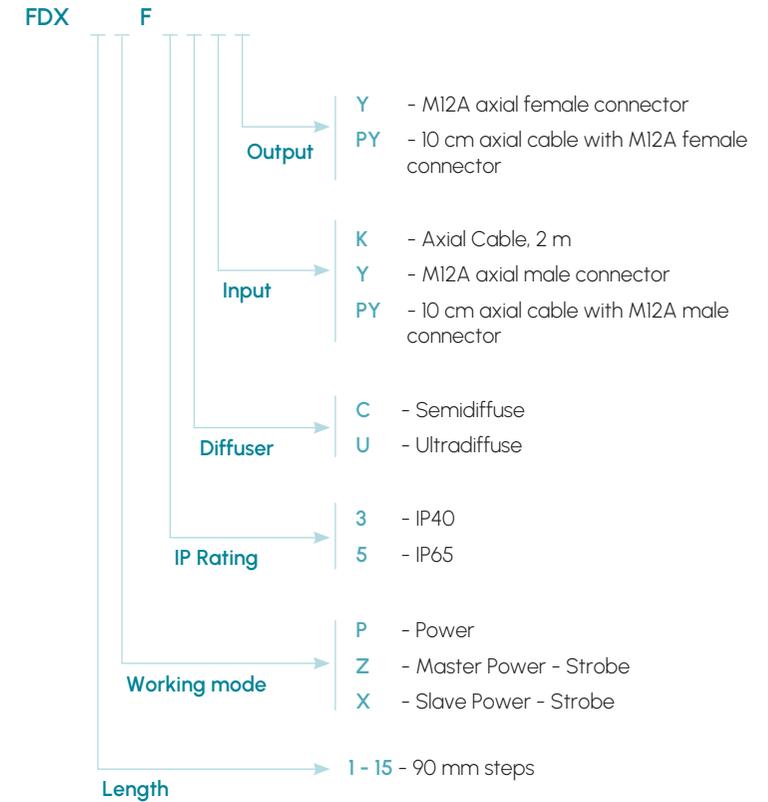
M12A axial version



Measures in mm

# FDX · 850 nm

## Selection guide



**lumher**

# Model FDX · Infrared 850 nm



FDX

**850nm**

INFRARED



SEMIDIFFUSE  
60°



ULTRADIFFUSE  
110°

PHOTOBIOLOGICAL  
RISK

RG1 - LOW

**60.000h**

LIFESPAN

## Table of characteristics

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

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