

Functional · FR Series White 5000K - Sensor · Switch

lumher



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

MADE IN SPAIN

Technical specifications

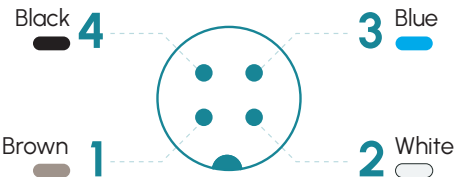
Power supply voltage	24 Vdc ±5%	
Luminous efficiency	155 lm/W	
Motion sensor disconnection delay (PIR)	5 min.	
Wavelength	Daylight white	5000K
Angle of aperture	Semidiffuse	60°
	Ultradiffuse	110°
Max. number of cascable modules	This luminaire is not cascable	
Electrical protections	Transient overvoltages	YES
	Polarity reversal	YES
	Current sablizer	YES
Colour Rendering Index (CRI)	≥ 80	
IP Rating	IP40	
Protection type	Class III	
Operating temperature	POWER version	-10 a +40 °C
	ECO version	-10 a +50° 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	

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



Anchors

F00G2, F00G4, F00R1, M6D16

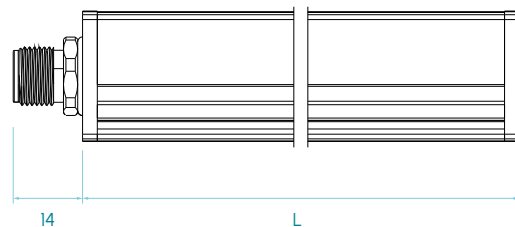
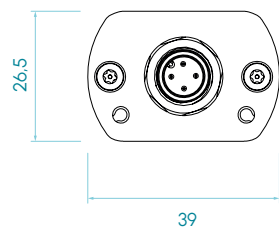
FR • 5000K



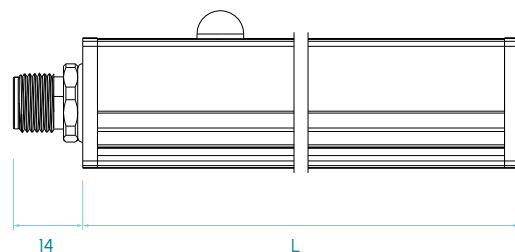
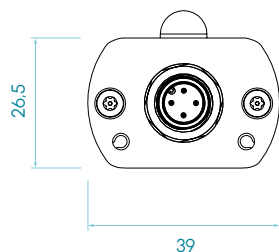
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Dimensiones

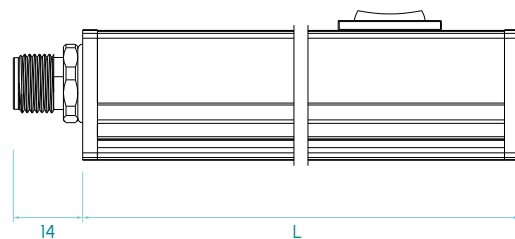
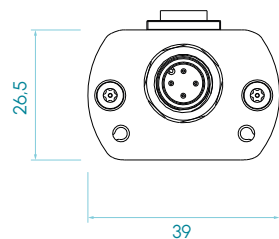
Tactile sensor + M12A axial input



Motion sensor + M12A axial input



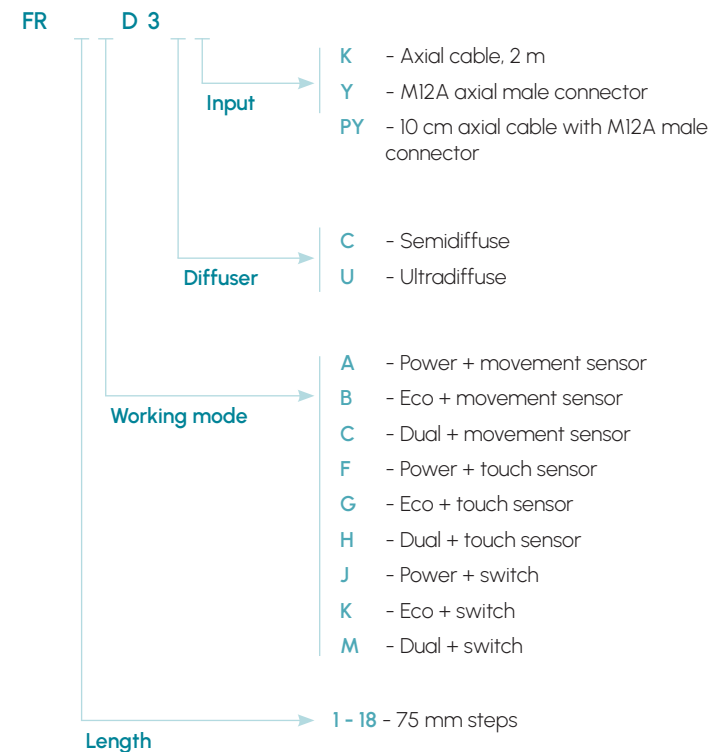
Switch + M12A radial input



Dimensions in mm

FR · 5000K

Selection guide



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FR Series · Daylight White 5000K Sensor · Switch

5000K

DAYLIGHT
WHITE



SEMIDIFFUSE
60°



ULTRADIFFUSE
110°

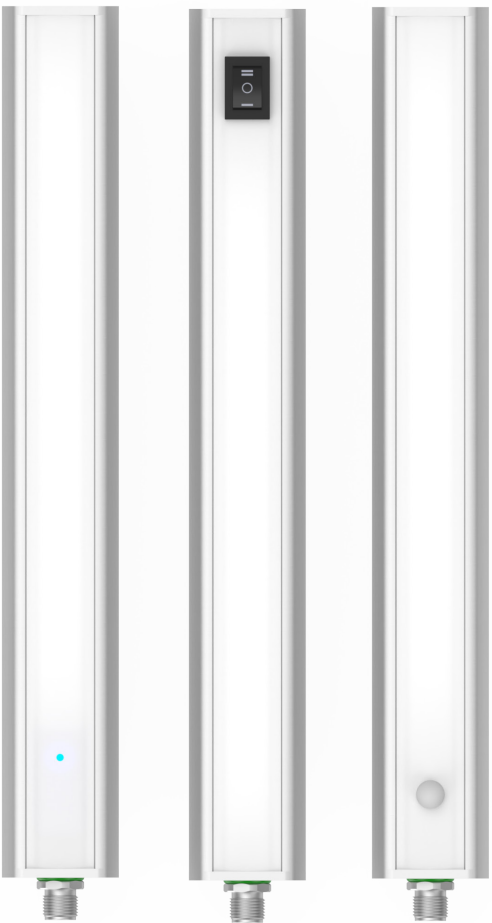
PHOTOBIOLOGICAL
RISK

RG1 - LOW

60.000h

LIFESPAN

Table of characteristics



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

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