LECTRI TUBULAR

DATALOGIC AUTOMATION

S18 SERIES

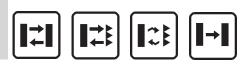
The S18 series basic line includes all the most diffused tubular photoelectric sensor models.

The retroreflex optic function is available in two versions, with or without the optic polarisation filter for the detection of shiny objects, and with operating distances up to 3 m according to the reflector used. Two different diffuse proximity versions with 10 or 30 cm operating distances

are also available; while the through beam models offer a 12 m operating distance.

The connection can be either with a cable or M12 connector; in both cases the 4 wire connection allows the complete configuration of the NPN/PNP output and dark/light operating mode. The S18 models offer ABS housing and fixing nuts, while the S18M models offer them in nickel-plated brass. The IP67 protection is guaranteed in all models.





HIGHLIGHTS

- · Most diffused models available
- NPN/PNP and dark/light configuration possibility
- Cable or M12 connection
- · Impermeable plastic or metal housing

APPLICATIONS



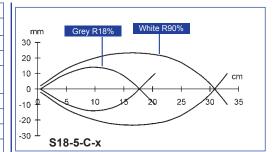


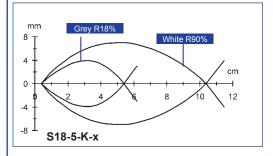


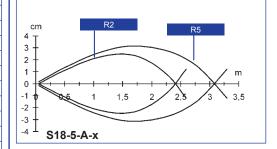
TECHNICAL DATA

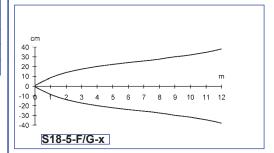
Power supply:	10 30 Vdc, reverse polarity protection		
Consumption:	30 mA max.		
Light emission:	infrared LED 880 nm		
	red LED (B vers.)		
Diffuse proximity operating distance:	1 30 cm (C vers.) 1 10 cm (K vers.)		
Retroreflex operating distance:	0.1 2 m (on R2)		
Polarised retroreflex operating distance:	0.1 1.5 m (on R2)		
Through beam operating distance:	0 12 m		
Setting:	sensitivity trimmer (B, C vers.)		
Indicators:	yellow OUTPUT LED		
	green POWER LED (G vers.)		
Output type:	NPN or PNP, open conifigurable (4 wires vers.)		
Saturation voltage:	2.5 V max. (4 wires vers.)		
	1.8 V max. (3 wires vers.)		
Output current:	150 mA max., short-circuit protection		
Response time:	1 ms max.		
	2 ms (F vers.)		
Operating mode:	dark/light configurable (4 wire vers.)		
Connection:	4-pole M12 connector		
	2 m Ø 5 mm cable		
Electrical protection:	class 2 (S18)		
	class 1 (S18M)		
Mechanical protection: .	IP67		
Housing material:	ABS for S18,		
	nickel-plated brass for S18M		
Lens material:	PMMA plastic		
Weight:	50 g max. (connector vers.)		
	100 g max. (cable vers.)		
Operating temperature:	-25 +55°C		
Storage temperature:	-25 +70°C		
Reference standard:	EN 60947-5-2		
	100 g max. (vers. cavo)		
Operating temperature:	-25 +55°C		
Storage temperature:	-25 +70°C		
Reference standard:	EN 60947-5-2		
Certifications:	() t ⁽¹⁾ a tarta		

DETECTION DIAGRAMS









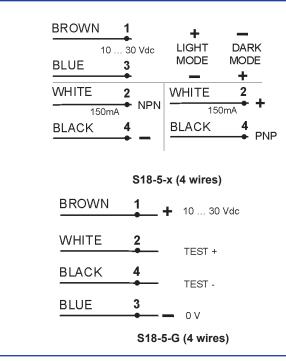
The operating distances indicate the detection distance with excess gain 2.

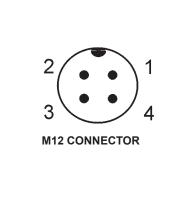


The detection diagrams indicate the typical operating distance with excess gain 1.

DATALOGIC AUTOMATION

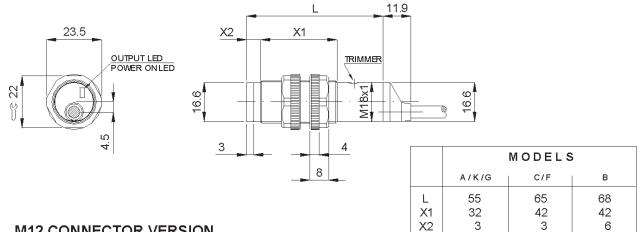
CONNECTIONS



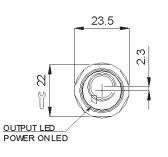


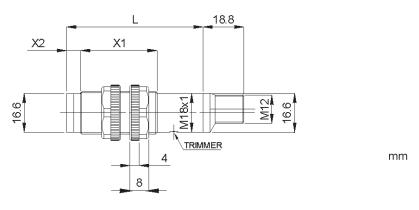
DIMENSIONS





M12 CONNECTOR VERSION





MODEL SELECTION AND ORDER INFORMATION

VERSIONS WITH PLASTIC HOUSING					
MODEL	OPTIC FUNCTION	CONNECTION	CODE N°		
S18-5-C-30	long distance proximity	2 m cable	952601040		
S18-5-C-32	long distance proximity	M12 4 wire connector	952601050		
S18-5-K-30	short distance proximity	2 m cable	952601020		
S18-5-K-32	short distance proximity	M12 4 wire connector	952601030		
S18-5-A-30	retroreflex	2 m cable	952601000		
S18-5-A-32	retroreflex	M12 4 wire connector	952601010		
S18-5-B-30	polarised retroreflex	2 m cable	952601060		
S18-5-B-32	polarised retroreflex	M12 4 wire connector	952601070		
S18-5-F-30	through beam receiver	2 m cable	952601080		
S18-5-F-32	through beam receiver	M12 4 wire connector	952601090		
S18-5-G-00	through beam emitter	2 m cable	952601100		
S18-5-G-02	through beam emitter	M12 4 wire connector	952601110		
VERSIONS WITH METAL HOUSING					
MODEL	OPTIC FUNCTION	CONNECTION	CODE N°		
S18M-5-C-30	long distance proximity	2 m cable	952651040		
S18M-5-C-32	long distance proximity	M12 4 wire connector	952651050		
S18M-5-K-30	short distance proximity	2 m cable	952651020		
S18M-5-K-32	short distance proximity	M12 4 wire connector	952651030		
S18M-5-A-30	retroreflex	2 m cable	952651000		
S18M-5-A-32	retroreflex	M12 4 wire connector	952651010		
S18M-5-B-30	polarised retroreflex	2 m cable	952651060		
S18M-5-B-32	polarised retroreflex	M12 4 wire connector	952651070		
S18M-5-F-30	through beam receiver	2 m cable	952651080		
S18M-5-F-32	through beam receiver	M12 4 wire connector	952651090		
S18M-5-G-00	through beam emitter	2 m cable	952651100		
S18M-5-G-02	through beam emitter	M12 4 wire connector	952651110		

ACCESSORY SELECTION AND ORDER INFORMATION				
MODEL	DESCRIPTION	CODE N°		
SP-40	fixed support for tubular M18 sensors	95ACC1370		
SWING-18	adjustable support for plastic tubular M18 sensors	895000006		

Please refer also to Sensor Accessories.

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.



Mouser Electronics

Authorized Distributor

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IDEC:

<u>S18M-5-A-30</u> <u>S18M-5-A-32</u> <u>S18M-5-B-30</u> <u>S18M-5-B-32</u> <u>S18M-5-C-30</u> <u>S18M-5-C-32</u> <u>S18M-5-F-30</u> <u>S</u>