

# S15 Photoelectric M18 Tubular Sensors

## TECHNICAL DATA

Power supply	12 ... 30 Vdc <sup>1</sup>
Ripple	≤ 2 Vpp
Consumption	≤ 25 mA
Output current	≤ 100 mA
Saturation voltage	≤ 2 V
Dielectric strength	500 Vac 1 min., between electronics and housing
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
Mechanical protection	IP65, IP67, IP69K
Ambient light rejection	According to EN 60947-5-2
Vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for each axis (EN60068-2-6)
Protection devices	A, B <sup>2</sup>
Housing	Plastic version ABS TERLURAN Metal version INOX AISI 316L
Indicators	yellow OUTPUT LED green STABILITY LED, POWER LED (through beam emitter S15-xx-x-G0x)
Operating mode	selectable dark/light <sup>3</sup>
Auxiliary functions	Test + and Test - Emitter off with Test+ on Vdc and Test- on 0 V
Connection	Cable vers. 2 m Ø 4 mm (PVC, 4 x 0,14 mm2) Connector vers. M12 4-pole connector pig-tail vers. 150 mm cable + M12 4-pole connector
Lens material	plastic PMMA
Weight	40 g max mod. M12 55 g max mod. cable 35 g max mod. pig-tail
Operating temperature	-25 ... +55°C
Storage temperature	-25 ... +70°C
Reference directives	EN 60947-5-2, UL 508



- \*S15-PA plastic case version for cost and space saving
- \*S15-NA stainless steel version for IP69K
- \*All optic functions at optimal operating distance
- \*Models with fixed setting or trimmer adjustment
- \*Cabel, M12 and pig-tail versions

## TECHNICAL NOTE

- <sup>1</sup>Limit values  
<sup>2</sup> A - reverse polarity protection  
 B - overload and short-circuit protection  
<sup>3</sup> With L/D input not connected the proximity models function in the light mode and the retroreflex and through beam models in the dark mode; the light mode can be selected connecting the L/D input to +Vdc, the dark mode connecting it to 0Vdc.



## DETECTION DIAGRAMS

