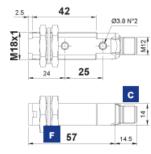
A INFRARED EMISSION

With retroreflex sensors the object is detected when it interrupts the light beam generated between the sensor and its associated prismatic reflector. This retroreflex system, created between the sensor and the reflector, offers the advantage of electrically connecting one single unit instead of two, as in the emitter-receiver system.

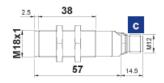


DIMENSIONS

PLASTIC HOUSING



METAL HOUSING







INDICATORS AND SETTINGS



- A OUTPUT status LED
- M12 connector output
- D Cable output
- E Fixing nuts
- Fixing gasket

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES section** of this catalogue.

Refer also to Connectors and Fixing brackets of the General Catalogue.

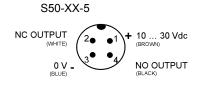
CONNECTIONS











Versions and options: refer to MODEL ALPHABETICAL INDEX of this catalogue.

TECHNICAL DATA TECHNICAL NOTES ¹Limit values S50-MA-2-A00-NN S50-MA-2-A00-PP S50-MA-5-A00-NN S50-PA-2-A00-PP S50-PA-5-A00-NN S50-MA-5-A00-PP ²Average life of 100.000 h with TA = +25 °C ³PVC, 4 x 0.14 mm² Compatible with quick connection systems A - reverse polarity protection B - overload and short-circuit protection on receiver outputs 0.1 ... 5 m • • • Operating distance: • 10 ... 30 Vdc 1 • • • • • Power supply: • Ripple: ≤ 2 Vpp • • • • Consumption: ≤ 35 mA • • Light emission: infrared LED 880 nm 2 • • • • • • • • Spot dimension: approx. 100 mm at 2 m • yellow OUTPUT LED Indicators: • • • Output type: PNP, NO and NC NPN, NO and NC Output current: ≤100 mA • • Saturation voltage: ≤2 V • • • 0.5 ms Response time: • • • • • • 1 kHz Switching frequency: • • • • • dark on NO / light on NC • • Operating mode: • • • Connection: 2 m Ø 4 mm cable 3 • • M12 4-pole connector 4 **Electrical protection:** class 2 • • IP67 Mechanical protection: • • • • • • A, B 5 Protection devices: • • • • • • • Housing material: PBT • • nickel plated brass • • Lens material: **PMMA** • • • Weight: 75 g max. • • 25 g max. • 110 g max. • 60 g max. Operating temperature: -25 ... +55°C • • • • • Storage temperature: -25 ... +70°C • • • • EN 60947-5-2 Reference standard:

SELECTION TABLE

plastic - axial optics - 2 m cable		
S50-PA-2-A00-NN	952002090	NPN
S50-PA-2-A00-PP	952002080	PNP

metal - axial optics - 2 m cable		
S50-MA-2-A00-NN	952022090	NPN
S50-MA-2-A00-PP	952022080	PNP

plastic - axial optics - M12 connector		
S50-PA-5-A00-NN	952002110	NPN
S50-PA-5-A00-PP	952002100	PNP

metal - axial optics - M12 connector		
S50-MA-5-A00-NN	952022110	NPN
S50-MA-5-A00-PP	952022100	PNP

All the ordering codes and information are summarised in the last pages of this catalogue.

CECUL US LISTED EX II3DG

DETECTION DIAGRAMS

