



S050

PHOTOELECTRIC SENSORS



Main characteristics



S050 is an electronic proximity switch based on the photoelectric principle of detecting the interruption of a light beam due to an object penetrating into the monitoring field.

S050 series is available in three version: diffuse-reflective (emitter and receiver are housed together and use the light reflected directly off the object for detection); retro-reflection (emitter and receiver are housed together and requires a reflector).

An object is detected when it interrupts the light beam between the sensor and reflector); trough- beam (emitter and receiver are housed separately and detect an object when it interrupts the light beam between the emitter and receiver. These photocells allow for the longest distances.). Thanks to its high operating frequency and to the high immunity to the ambient light, S050 represents a great solution in most mechanical and industrial application for automation.

Photoelectric sensors

Ordering code

S 0 50 3 X 30 C A P 0

sensor S

photoelectric 0

Dimensions

50 mm 50

Max power supply

30 Vdc 3

Version details

standard X

Sensing distance

300/500 mm (with A version) 30/50

4000 mm (with B version) 04

5000 mm (with C version) 05

Output type

connector C

cable W

Version

diffuse-reflective A

retro-reflective B

trough- beam C

Output electronic

PNP P

NPN N

Output configuration

NO 0

NC C

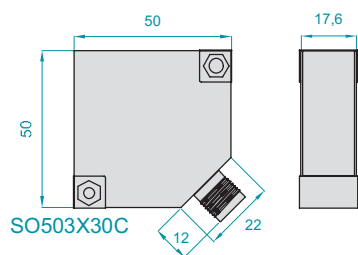
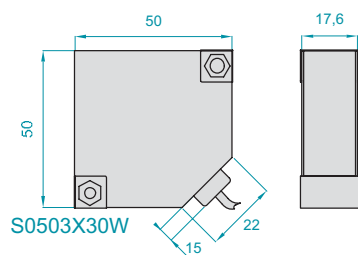
NO+NC (4 cables) X

Technical Specifications

Version	diffuse-reflective retro-reflective trough-beam
Output type	connector or cable
Output electronic	PNP or NPN
Output configuration	NO or NC
Sensing distance	300/500 mm (diffuse-reflective) 4000 mm (retro-reflective) 5000 mm (trough-beam)
Standard object detected	Opaque or transparent surfaces
Power supply	10÷30 Vdc ±10%
Maximum current without load	15 mA max
Output current	200 mA max
Protection class	IP54
Working temperature	-25÷55 °C
Direction angle	3÷10°
Response time	2 ms max
Ambient light intensity	10000 lx max (sun light) 3000 lx max (artificial light)
Protection against polarity inversion	yes
Housing material	plastic

Mechanical dimensions

dimensions: mm



S050



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