

**Main characteristics**

S018 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. S018 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, S018 and SD18 represent a great solution in most mechanical and industrial application for automation. The SD18 model has a diode in the output making parallel connection of two or more sensors possible.


**Ordering code**

S	0	18	3	X	10	C	A	P	0
sensor S	photoelectric O	with diode D	Dimensions	Version details	Sensing distance	Output Type	Version	Output electronic	Output configuration
			∅ 18 mm 18	standard X radial R	100/300/700 mm (with A version) 10/30/70 2000 mm (with B version) 02 5000 mm (with C version) 05	connector C cable W	diffuse-reflective A retro-reflective B trough- beam C	PNP P NPN N	NO O NC C NO+NC (4 cables) X
			Max power supply						
			30 Vdc 3						

**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	100/300/700 mm (diffuse-reflective) 2000 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	IP66
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

