

# M18SP6DL Photoelectric Sensor – Diffuse Mode Sensor



### Technical data

Туре	M18SP6DL
ID no.	3048666
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	IR
Wavelength	880 nm
Range	2300 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Threaded barrel, M18
Dimensions	Ø 18 x 59.2 mm
Housing material	Metal, Stainless steel
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-40+70 °C



## Features

Cable, 2 m

- Protection class IP67
- Ambient temperature: -40...+70 °C
- Metal housing
- Connecting cable, 2 m
- Stainless steel housing
- Operating voltage: 10...30 VDC

  RNP switching output, changeover
- PNP switching output, changeover

## Wiring diagram



## Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

#### Excess gain curve

Excess gain in relation to the distance



### Technical data

Protection class	IP69
Special features	Chemical-resistant Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE



## Accessories



3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



#### 3012558

Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

#### SMB3018SC



3053952 Mounting bracket, PTB black, for sensors with 18 mm thread



#### 3073134

Mounting bracket, stainless steel, for sensors with 18 mm thread