

QS186LE212Q Photoelectric Sensor – Laser Emitter



Technical data

Туре	QS186LE212Q	
ID no.	3075967	
Optical data		
Function	Opposed mode sensor	
Operating mode	Laser Emitter	
Light type	IR	
Wavelength	650 nm	
Range	015000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 100 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Readiness delay	≤ 10 ms	
Mechanical data		
Design	Rectangular with thread, QS18	
Dimensions	Ø 18 x 31 x 15 x 35 mm	
Housing material	Plastic, ABS	
Lens	plastic, PMMA	
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC	
Number of cores	4	
Ambient temperature	-10+50 °C	
Protection class	IP67	
Special features	Laser	
Power-on indication	LED, Green	



Features

Cable with male end, 4-pin, PVC, 150 mm, 8 mm

Protection class IP67

LED all-round visible

Operating voltage: 10...30 VDC

Wiring diagram





Functional principle

Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque objects. The high light/ dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions. Activation

By connecting the control input (PIN 2 WH) to ground (-) the laser beam is turned on. The laser beam is turned off again by feeding 10 ... 30 VDC to the control input or by non-connecting the wire.



Technical data

Excess gain indication	LED
Tests/approvals	
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus

Excess gain curve Excess gain in relation to the distance (type 6EB/RB)



Accessories

SMB18A	3033200	SMB18AFAM10	3012558
ø 18.5 ø 4.6 R 24.2 	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	10 10 10 10 10 10 10 10 10 10	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm
SMBQS18A	3069721	SMB18SF	3052519
41 21 M18 x 1 24,9 19,4	Mounting bracket, stainless steel, for 18 mm thread	11,7 50,8 43,2 36,1 25,4	Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable



Accessories

