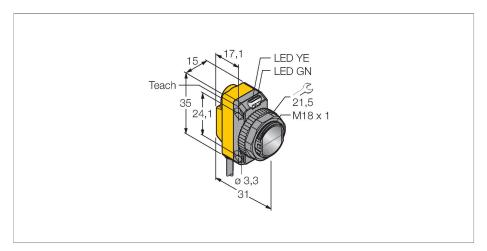


QS18EP6CV45 W/30 Photoelectric Sensor – Convergent Mode Sensor



Technical data

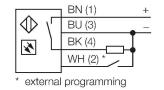
Туре	QS18EP6CV45 W/30
ID no.	3068762
Optical data	
Function	Proximity switch
Operating mode	Convergent
Light type	Red
Wavelength	630 nm
Focal distance	43 mm
Range	43 mm
Electrical data	
Operating voltage	1030 VDC
DC rated operational current	≤ 100 mA
No-load current	≤ 35 mA
Reverse polarity protection	yes
Output function	NO contact, PNP
Switching frequency	≤ 833 Hz
Readiness delay	≤ 100 ms
Response time typical	< 0.6 ms
Setting option	Push Button Remote Teach
Machaniaal data	
Mechanical data	
Design	Rectangular with thread, QS18
	Rectangular with thread, QS18 Ø 18 x 31 x 15 x 35 mm
Design	
Design Dimensions	Ø 18 x 31 x 15 x 35 mm
Design Dimensions Housing material	Ø 18 x 31 x 15 x 35 mm Plastic, ABS



Features

- Cable, PVC, 9 m, 4-wire
- ■Protection class IP67
- ■LED all-round visible
- Sensitivity adjusted via teach button
- Operating voltage: 10...30 VDC
- ■PNP switching output
- ■Light or dark operation

Wiring diagram



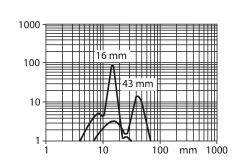
Functional principle

Convergent mode sensors are equipped with a lens in front of the emitter diode that produces a small and intense focal point at a defined distance from the sensor. Similar to diffuse mode sensors, the light reflected by the target is evaluated. Convergent mode sensors are ideal for detection of small targets or colour marks and edge guiding or positioning control of transparent materials. The targets must always be within the focal depth of the sensors. The focal depth is defined as the area in front of or behind the focal point within which the object can be detected. Based on the intense light concentration in the focal point, convergent mode sensors are capable of detecting targets with a low reflectivity.

Excess gain curve Excess gain in relation to the distance

Technical data

Core cross-section	0.5 mm ²
Ambient temperature	-20+70 °C
Protection class	IP67
Special features	keep/defer
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, cURus



Accessories

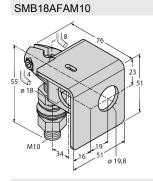
SMB18A

Mountin stainles mm three

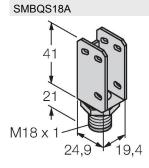
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Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

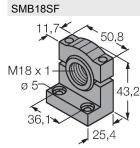
3033200



3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



3069721 Mounting bracket, stainless steel, for 18 mm thread



3052519 Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable