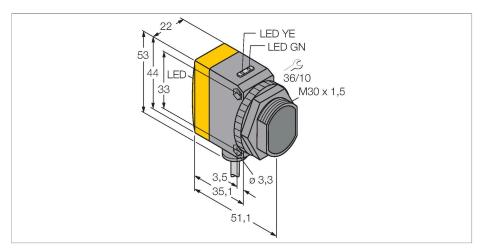


QS30VR3FF200 Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression





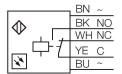
Operating mode Backg	nity switch
Function Proxin Operating mode Backg	nity switch
Operating mode Backg	nity switch
	,
	round suppression, non-adjustable
Light type Red	
Wavelength 680 nr	m
Range 020	0 mm
Electrical data	
Operating voltage 122	50 VDC
Operating voltage 242	50 VAC
No-load current ≤ 35 n	nA
Output function NO/NO	C, Relay output
Switching frequency ≤ 33 I	Hz
Readiness delay ≤ 100	ms
Response time typical < 15 r	ms
Mechanical data	
Design Rectal	ngular with thread, QS30
Dimensions Ø 30 >	c 51.5 x 22 x 44 mm
Housing material Plastic	c, Thermoplastic material, Yellow
Lens plastic	c, Acrylic
Electrical connection Cable	, 2 m, PVC
Number of cores 5	
Core cross-section 0.5 m	ım²
Ambient temperature -40+	+70 °C
Protection class IP67	



Features

- Cable, PVC, 2 m
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 12...250 VDC or 24... 250 VAC
- Relay output, changeover

Wiring diagram



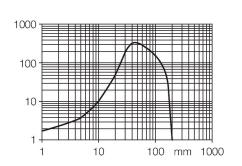
Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The sensor electronics determine whether the reflecting object is within or outside the measuring range. These sensors come with a fixed cut-off point.

Excess gain curve Excess gain in relation to the distance

Technical data

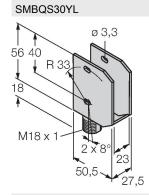
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED, yellow, flashing
Tests/approvals	
MTTF	177 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE



Accessories

SMBQS30Y 56 33 M18 x 1 35 26,5

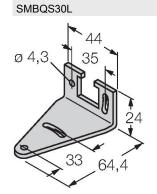
3002811 Protective housing, stainless steel, for QS30 series



Protective housing with safety glas panel, stainless steel, for QS30 series

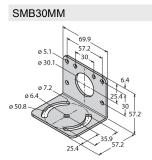
3072741

SMB30A Ø 30,5 6,3 wide Ø 6,3 7,5 R 40 69 3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



Mounting bracket, stainless steel, for QS30 series

3002809



3027162 Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment



3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable