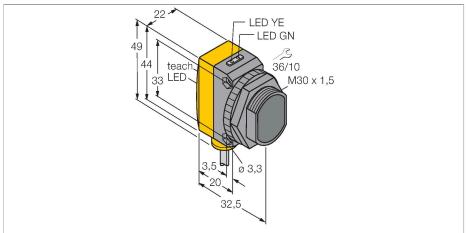


QS30EDVQPMA8 Photoelectric Sensor – Diffuse Mode Sensor





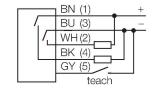
Туре	QS30EDVQPMA8	
ID	3076093	
Optical data		
Function	Proximity switch	
Operating mode	Diffuse	
Light type	IR	
Wavelength	660 nm	
Range	21400 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 150 mA	
No-load current	≤ 35 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Output function	NO contact, PNP/NPN	
Readiness delay	≤ 250 ms	
Response time typical	< 0.3 ms	
Setting option	Push Button Remote Teach	
Mechanical data		
Design	Rectangular with thread, QS30	
Dimensions	Ø 30 x 35 x 22 x 49 mm	
Housing material	Plastic, Thermoplastic material, Yellow	
Lens	plastic, Acrylic	
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PUR	
Number of cores	4	

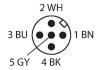


Features

- Cable with male end M12 × 1, 5-pin, PUR, 150 mm
- ■Protection class IP67
- ■LED all-round visible
- ■Teach button
- ■8-segment bargraph
- Operating voltage: 10...30 VDC
- ■Switching output, bipolar
- Light or dark operation

Wiring diagram





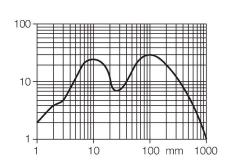
Functional principle

Identical to retro-reflective sensors, emitter and receiver circuitry are incorporated in the same housing of the diffuse mode sensors. However, diffuse mode sensors do not detect the interruption of the light beam but the reflection of the target. A target is detected if it reflects sufficient light back to the receiver. The switching distance of diffuse mode sensors thus largely depends on the reflectivity of the target.

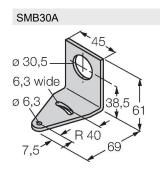
Excess gain curve
Excess gain in relation to the distance

Technical data

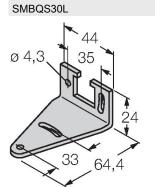
Ambient temperature	-10+55 °C		
Protection class	IP67		
Special features	keep/defer		
Power-on indication	LED, Green		
Switching state	LED, Yellow		
Error indication	LED, green, Flashing		
Excess gain indication	Bargraph, red, flashing		
Tests/approvals			
MTTF	280 years acc. to SN 29500 (Ed. 99) 40 °C		
Approvals	CE		



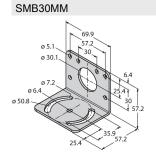
Accessories



3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

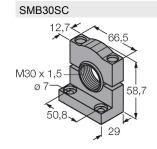


3002809 Mounting bracket, stainless steel, for QS30 series



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

3027162



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

3052521

Accessories

Dimension drawing	Туре	ID	
0 15 M12x1 265 32	WKC4.5T-2/TEL	6625028	Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com



 Dimension drawing
 Type
 ID

 RKC4.5T-2/TEL
 6625016



Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com