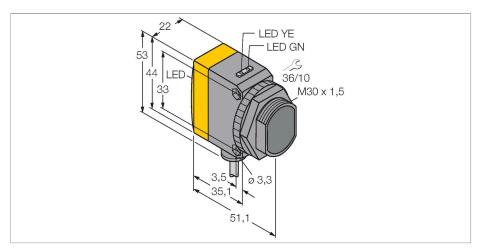


# QS30AF600 Photoelectric Sensor – Diffuse Mode Sensor with Adjustable Background Suppression





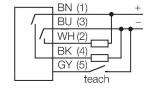
Туре	QS30AF600
ID	3011977
Optical data	
Function	Proximity switch
Operating mode	Background suppression, adjustable
Light type	Red
Wavelength	660 nm
Range	50600 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U <sub>ss</sub>
DC rated operational current	≤ 150 mA
No-load current	≤ 45 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	≤ 500 Hz
Readiness delay	≤ 200 ms
Response time typical	< 5 ms
Setting option	Mechanical Screw
Mechanical data	
Design	Rectangular with thread, QS30
Dimensions	Ø 30 x 35 x 22 x 53 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC



#### **Features**

- Cable, PVC, 2 m
- ■Protection class IP67
- ■LED all-round visible
- Sensitivity adjusted via potentiometer
- ■Operating voltage: 10...30 VDC
- ■Switching output, bipolar
- ■Light or dark operation

### Wiring diagram



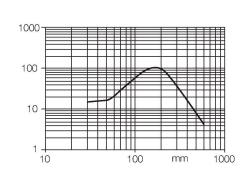
## Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target's position and the optical structure of the sensor determine which receiver element gets the most light. The sensor electronics then determines whether the reflecting target is in or outside the measuring range. The sensors are available with adjustable or fixed cut-off point.

Excess gain curve Excess gain in relation to distance

# Technical data

Number of cores	5
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-20+60 °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, red, flashing
Tests/approvals	
Approvals	CE



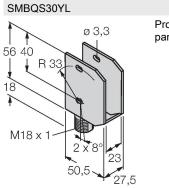
#### Accessories

ø 3,3 M18 x 1

SMBQS30Y 3002811

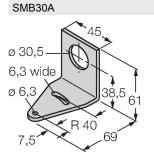
Protective housing, stainless steel, for QS30 series

26,5



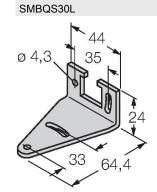
Protective housing with safety glas panel, stainless steel, for QS30 series

3072741

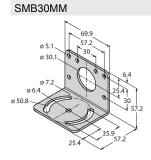


Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

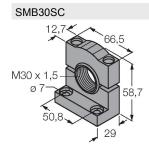
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3002809 Mounting bracket, stainless steel, for QS30 series



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



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

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