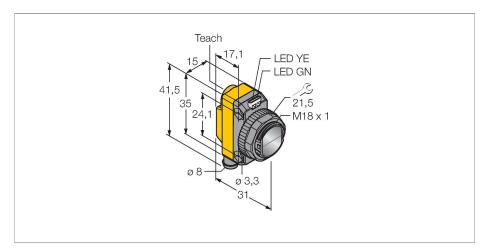


QS18EP6DQ7 Photoelectric Sensor – Diffuse Mode Sensor





Technical data

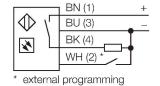
Ambient temperature

Туре	QS18EP6DQ7
ID no.	3072007
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	IR
Wavelength	940 nm
Range	0800 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
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	Connectors, M8 × 1, PVC
Number of cores	4

Features

- Male M8 × 1, 4-pin
- ■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

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. This type of sensor is especially suited for detection of transparent objects (diffuse mode sensor with or without background suppression or convergent mode sensors).

Excess gain curve

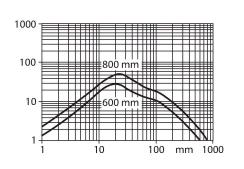
-20...+70 °C



Technical data

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

Excess gain in relation to the distance



Accessories

SMB18A

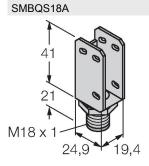
0 18.5
0 4.6
R 24.2
0 4.6
0 4.6

3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

oracket, rectangular, teel, for sensors with 18

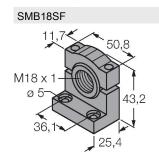
SMB18AFAM10

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



Mounting bracket, stainless steel, for 18 mm thread

3069721



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

3052519



Accessories

