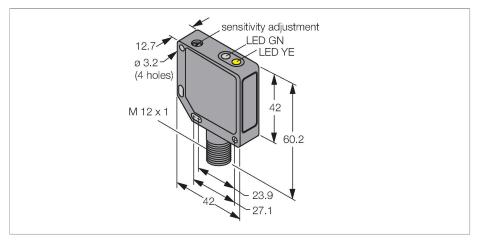


QM42VP6RQ Photoelectric Sensor - Opposed Mode Sensor (Emitter/ Receiver)



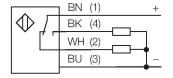
Technical data

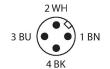
Туре	QM42VP6RQ
ID	3044335
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Wavelength	880 nm
Range	010000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 30 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC, PNP
Switching frequency	≤ 500 Hz
Readiness delay	≤ 100 ms
Response time typical	< 1 ms
Overcurrent release	> 150 mA
Setting option	Potentiometer
Mechanical data	
Design	Rectangular, QM42
Dimensions	42 x 12.7 x 60.2 mm
Housing material	Metal, Zinc Alloy Die-Cast, Black-finished
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1, PVC

Features

- Male M12 × 1, 4-pin
- ■Metal housing, ZN, black
- ■Protection class IP67
- Sensitivity adjusted via potentiometer
- Operating voltage 10...30 VDC
- ■PNP switching output
- Light/dark operation

Wiring diagram

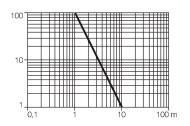




Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve

Excess gain in relation to the distance



Technical data

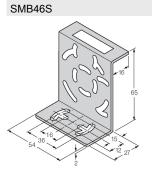
Number of cores	4
Ambient temperature	-20+70 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, cURus

Accessories

SMB30SK
12,7 66,5 38 50,8 0 7 29

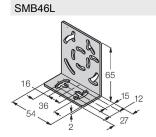
3052523

Mounting bracket, PBT black, with mounting plate, stainless steel, for types with 18 mm thread, QM42/ QMT42



3048748

Mounting bracket, stainless steel, for QS18, QS30, MINI-BEAM, QM42/ QMT42



3048747

Mounting bracket, stainless steel, for QS18, QS30, MINI-BEAM, QM42/ QMT42

Accessories





Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com



