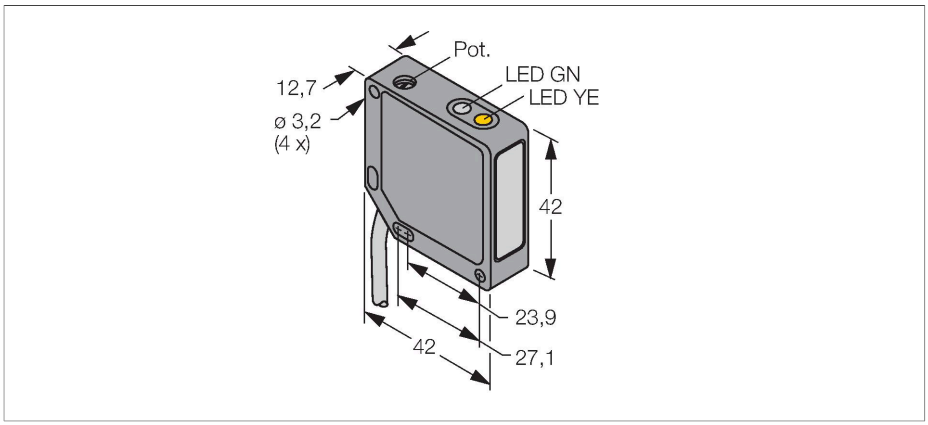
QM426E
Photoelectric Sensor – Opposed Mode Sensor (Emitter)



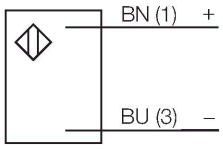
Technical data

Type	QM426E
ID no.	3044331
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	880 nm
Range	0…10000 mm
Electrical data	
Operating voltage	10…30 VDC
Residual ripple	< 10 % U_{ss}
No-load current	≤ 30 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 100 ms
Mechanical data	
Design	Rectangular, QM42
Dimensions	42 x 12.7 x 42 mm
Housing material	Metal, Die-cast zinc alloy, Black-finished
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	2
Core cross-section	0.5 mm²
Ambient temperature	-20…+70 °C
Protection class	IP67
Power-on indication	LED, Green
Excess gain indication	LED

Features

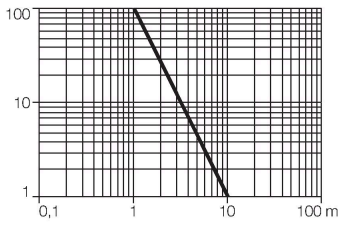
- Cable, PVC, 2 m, 4-wire
- Metal housing, ZN, black
- Protection class IP67
- Operating voltage: 10…30 VDC

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

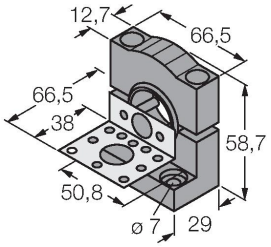


Technical data

Tests/approvals	
Approvals	CE, cURus

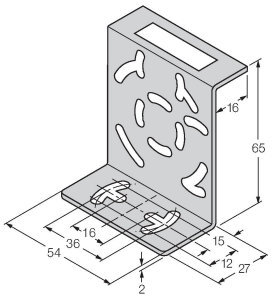
Accessories

SMB30SK	3052523



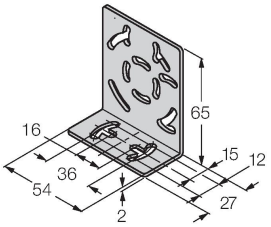
Mounting bracket, PBT black, with mounting plate, stainless steel, for types with 18 mm thread, QM42/ QMT42

SMB46S	3048748



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

SMB46L	3048747



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