



Model Number

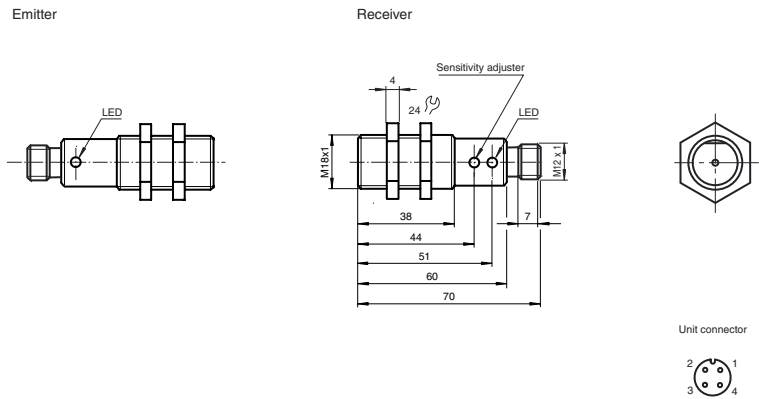
OBE10M-18GM60-RT-SE4-V1

Thru-beam sensor
with 4-pin, M12 x 1 connector

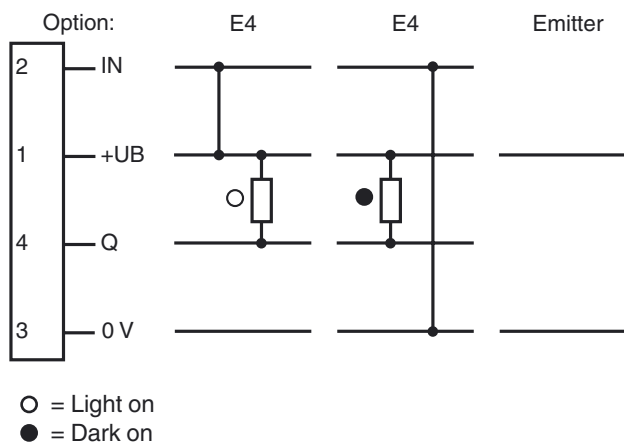
Features

- Dual color indication LED
- Light/dark ON, programmable
- Sensitivity adjuster for optimal adaptation to the application
- Protection degree IP67
- Strong metallic housing in cylindrical shape M18 x 1

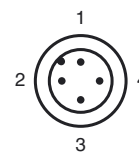
Dimensions



Electrical connection



Pinout



Technical data

System components

Emitter	OBE10M-18GM60-RT-S-V1
Receiver	OBE10M-18GM60-RT-E4-V1

General specifications

Effective detection range	0 ... 10 m
Adjustment range	0 ... 10000 mm
Reference target	receiver
Light source	Red, 660 nm
Light type	660 nm visible red light
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)
Diameter of the light spot	approx. 600 mm at detection range 10 m
Ambient light limit	10000 Lux

Indicators/operating means

Operating display	LED green (emitter)
Function display	Dual color-LED, yellow/green yellow: switching state green: power on flashing: stability control
Controls	sensitivity adjustment

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC, class 2
Ripple		10 %
No-load supply current	I_0	≤ 25 mA (device)
Time delay before availability	t_v	≤ 25 ms

Output

Switching type	light/dark on electrically switchable	
Signal output	1 NPN output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop	U _d	≤ 2.5 V
Switching frequency	f	500 Hz
Response time	1 ms	

Standard conformity

Standards	EN 60947-5-2
Standards 2	UL 508

Ambient conditions

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

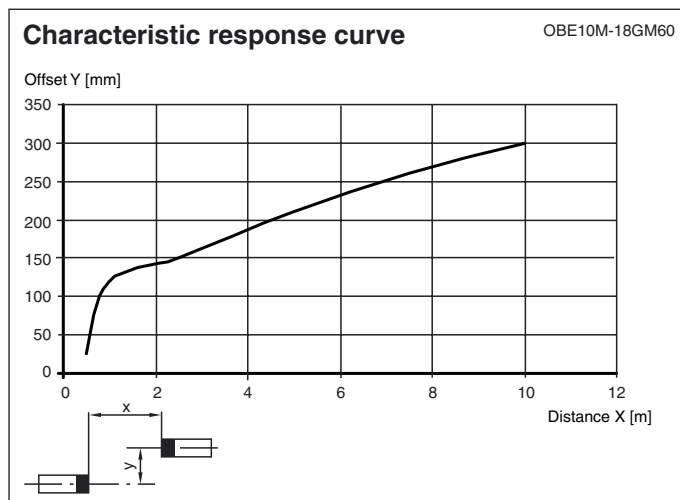
Mechanical specifications

Protection degree	IP67
Connection	connector M12 x 1, 4-pin
Material	
Housing	brass, nickel-plated
Optical face	PC
Mass	45 g per device

Approvals and certificates

UL approval	cULus Listed, Type 1 enclosure
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

Curves/Diagrams



Accessories

CPZ18B03

Mounting Bracket with swivel nut

BF 18

Mounting flange, 18 mm

BF 18-F

Mounting flange with dead stop, 18 mm

BF 5-30

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

