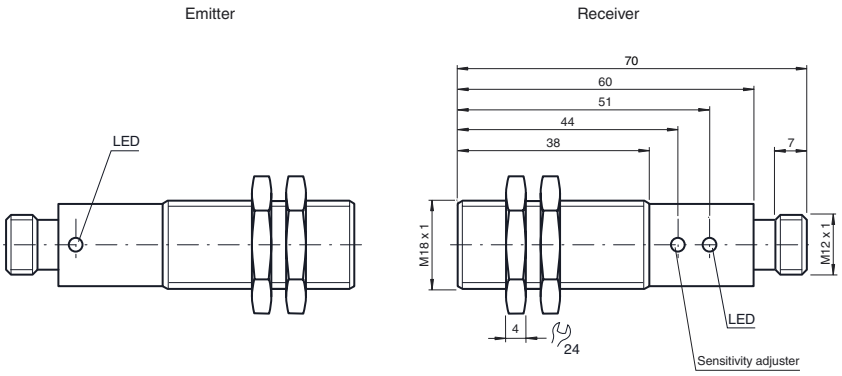


Dimensions



Model Number

OBE10M-18GM60-SE5-V1

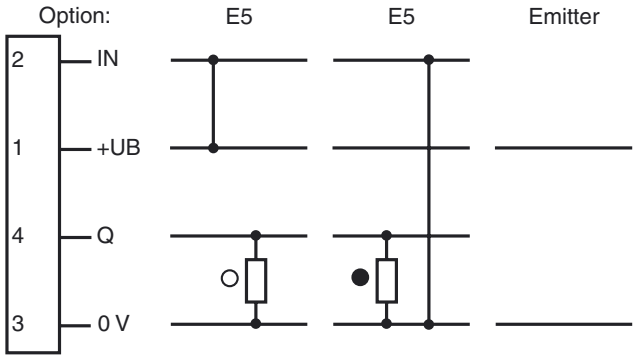
Thru-beam sensor

with 4-pin, M12 x 1 connector

Features

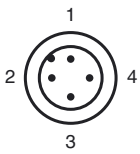
- Dual color indication LED
- Light/dark ON, programmable
- Sensitivity adjuster for optimal adaptation to the application
- Degree of protection IP67
- Strong metallic housing in cylindrical shape M18 x 1

Electrical connection



○ = Light on
● = Dark on

Pinout



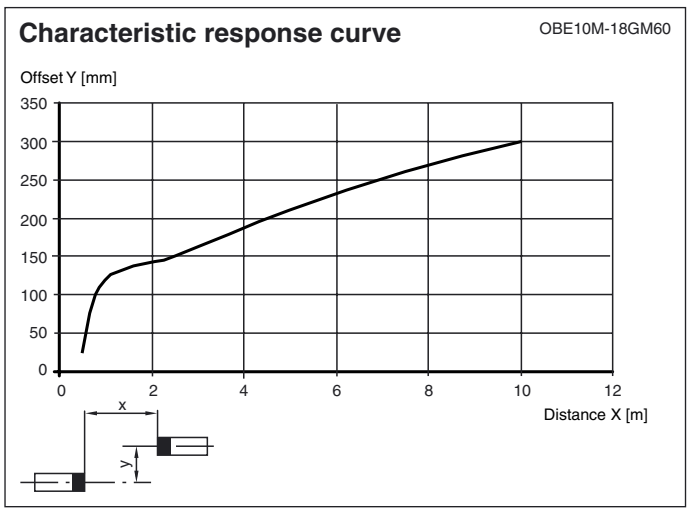
Release date: 2014-12-12 11:09 Date of issue: 2015-01-16 087793_eng.xml

Technical data

System components		
Emitter		OBE10M-18GM60-S-V1
Receiver		OBE10M-18GM60-E5-V1
General specifications		
Effective detection range		0 ... 10 m
Adjustment range		0 ... 10000 mm
Reference target		receiver
Light source		IRED
Light type		880 nm IR light
Diameter of the light spot		approx. 600 mm at detection range 10 m
Ambient light limit		10000 Lux
Indicators/operating means		
Operation indicator		LED green (emitter)
Function indicator		Dual color-LED, yellow/green yellow: switching state green: power on flashing: stability control
Control elements		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 PNP 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		
Degree of protection		IP67
Connection		4-pin, M12 x 1 connector
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
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

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

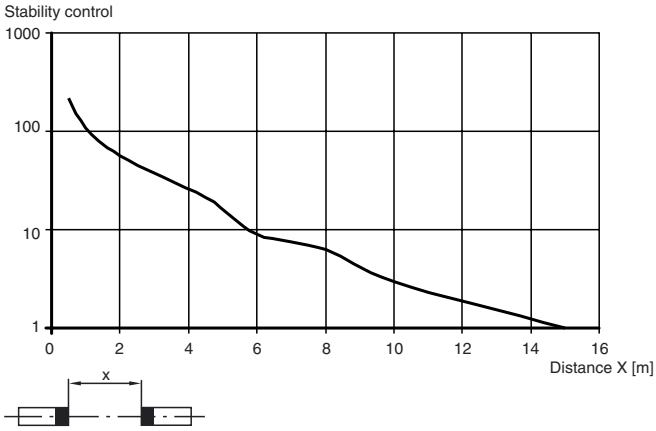
Other suitable accessories can be found at www.pepperl-fuchs.com

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".
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PEPPERL+FUCHS SENSING YOUR NEEDS

Relative received light strength

OBE10M-18GM60



Release date: 2014-12-12 11:09 Date of issue: 2015-01-16 087793_eng.xml