



**Model Number**

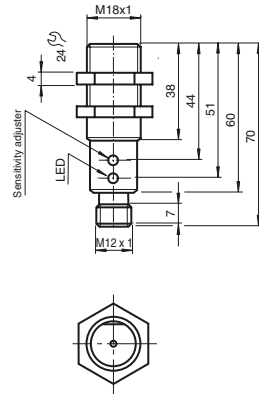
**OBS4000-18GM60-E4-V1**

Retroreflective sensor  
with 4-pin, M12 x 1 connector

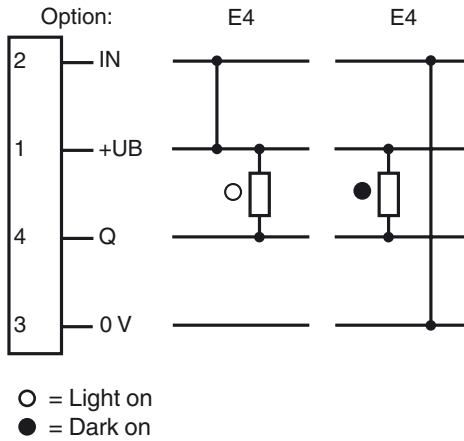
**Features**

- Dual color indication LED
- Glare protected with polarization filter
- 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

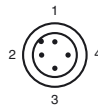
**Dimensions**



**Electrical connection**



**Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
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**Technical data****General specifications**

Effective detection range	0 ... 4 m
Threshold detection range	4.5 m
Reference target	H50 reflector
Light source	LED
Light type	modulated visible red light , 660 nm
Polarization filter	yes
Diameter of the light spot	approx. 200 mm at detection range 4 m
Angle of divergence	3 °
Optical face	frontal
Ambient light limit	10000 Lux

**Indicators/operating means**

Operation indicator	LED green
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
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

**Conformity**

Product standard	EN 60947-5-2
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**Ambient conditions**

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

**Mechanical specifications**

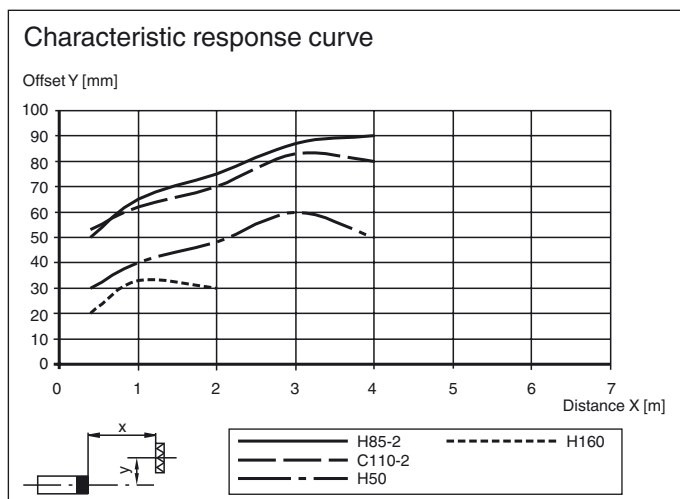
Degree of protection	IP67
Connection	4-pin, M12 x 1 connector
Material	
Housing	brass, nickel-plated
Optical face	PMMA
Mass	45 g

**Compliance with standards and directives**

Standard conformity	
Standards	UL 508

**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

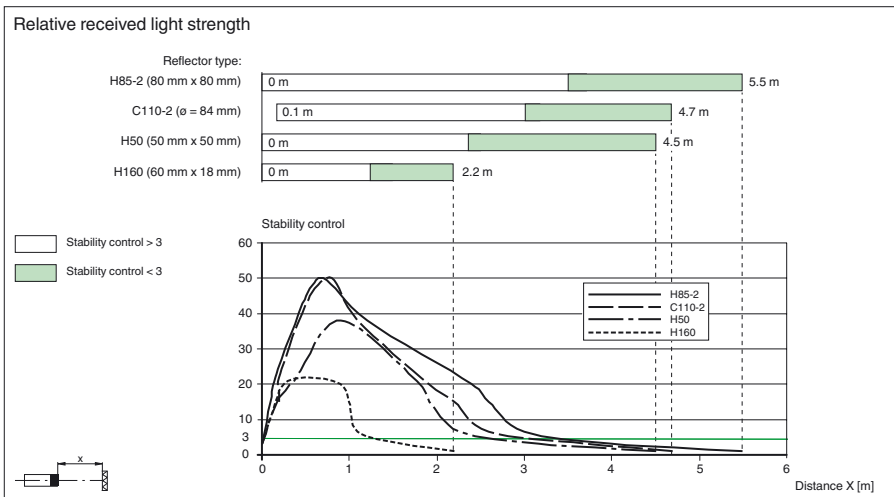
**BF 18-F**

Plastic mounting adapter, 18 mm

**BF 5-30**

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

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)



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