



**Model Number**

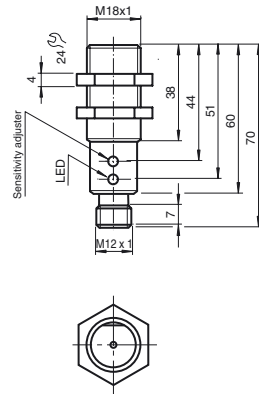
**OBT500-18GM60-E5-V1**

Diffuse mode sensor  
with 4-pin, M12 connector

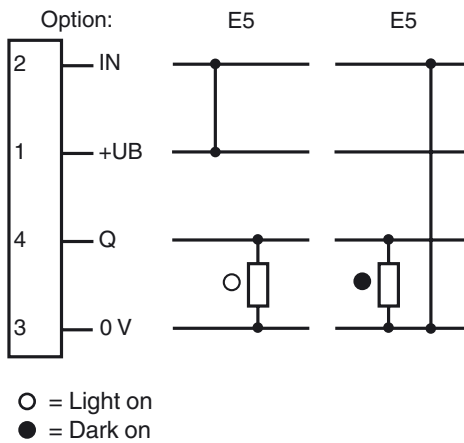
**Features**

- Dual color indication LED
- High switching frequency
- Light/dark ON, programmable
- Protection degree IP67
- Strong metallic housing in cylindrical shape M18 x 1

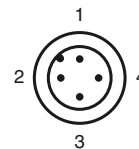
**Dimensions**



**Electrical connection**



**Pinout**



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

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**Technical data****General specifications**

Detection range	0 ... 500 mm
Reference target	standard white 200 mm x 200 mm
Light source	IREL, 880 nm
Light type	infrared
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)
Diameter of the light spot	approx. 80 mm at 500 mm
Ambient light limit	10000 Lux

**Indicators/operating means**

Operating display	LED green
Function display	Dual color-LED, yellow/green yellow: switching state green: power on flashing: stability control
Controls	Detection range adjuster

**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 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**

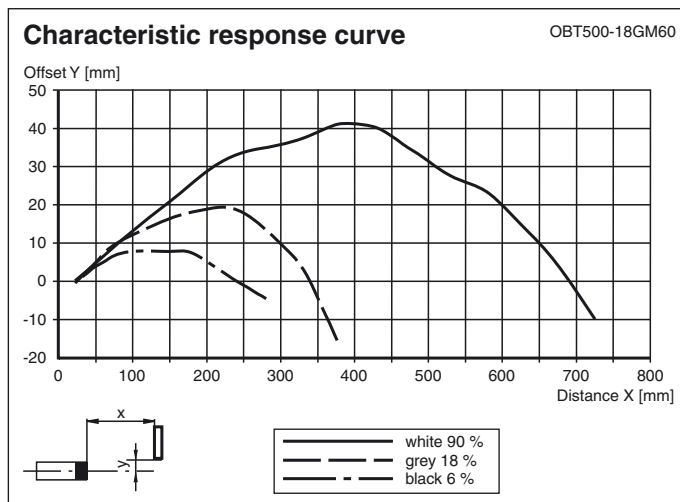
Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

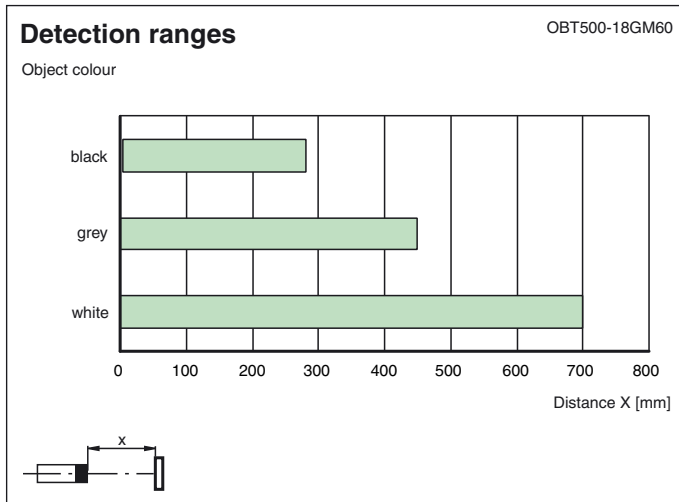
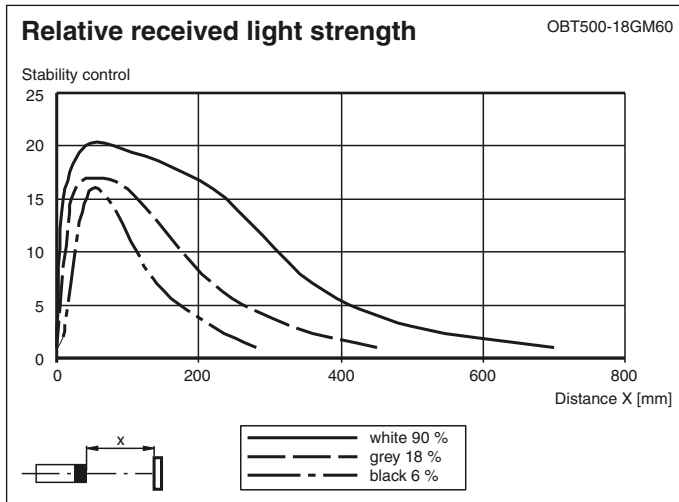
**Mechanical specifications**

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

**Approvals and certificates**

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

**Curves/Diagrams**



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