



Model Number

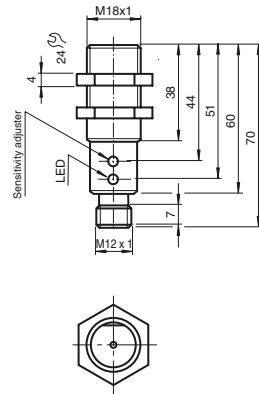
OBT500-18GM60-E5-V1

Diffuse mode sensor
with 4-pin, M12 connector

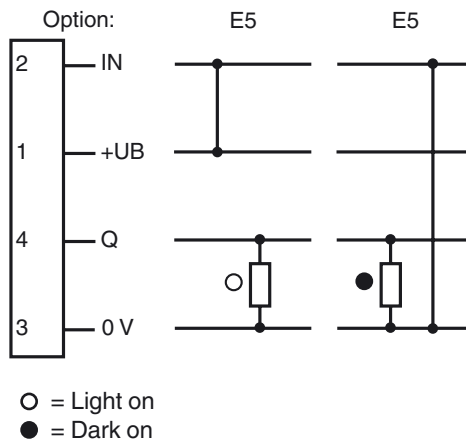
Features

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

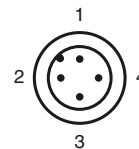
Dimensions



Electrical connection



Pinout



Release date: 2011-08-25 10:11 Date of issue: 2011-08-25 087797_eng.xml

Technical data**General specifications**

Detection range	0 ... 500 mm
Reference target	standard white 200 mm x 200 mm
Light source	IRET , 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, protected from reverse polarity, 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

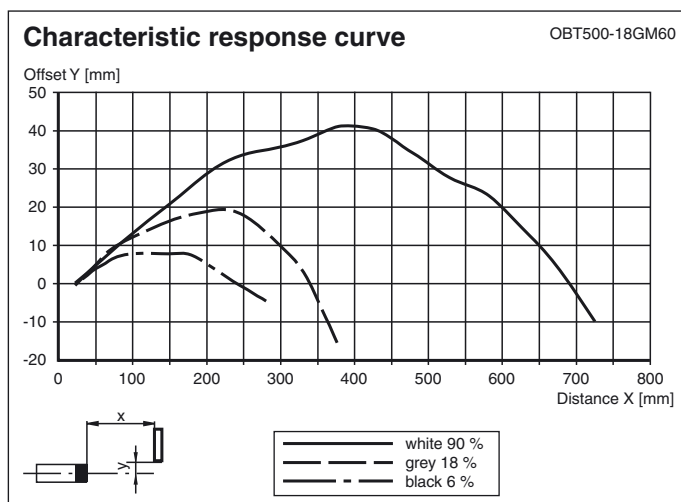
Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

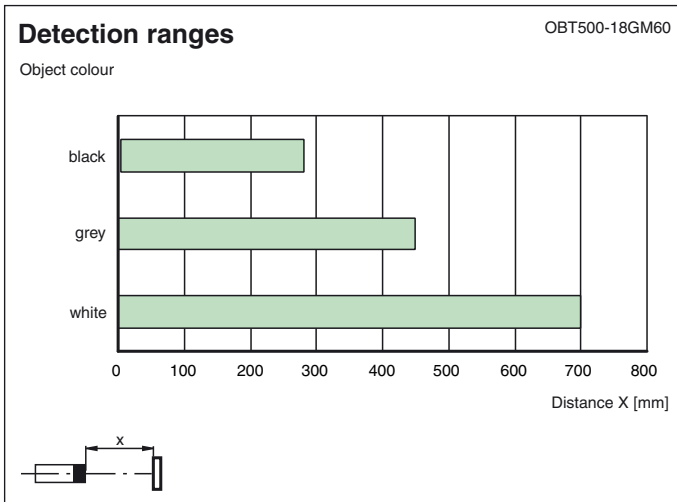
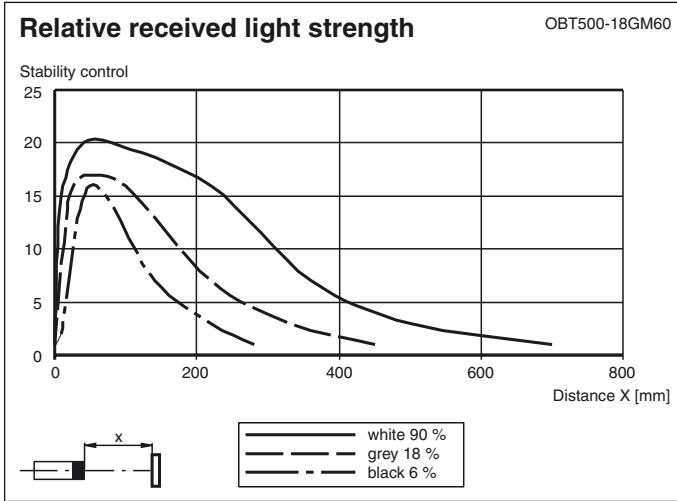
Mechanical specifications

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

Approvals and certificates

CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
--------------	--

Curves/Diagrams



Release date: 2011-08-25 10:11 Date of issue: 2011-08-25 087797_eng.xml

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Photoelectric Sensors](#) category:

Click to view products by [Pepperl & Fuchs](#) manufacturer:

Other Similar products are found below :

[E3JM-DS70R4T-US](#) [E3L2DC4](#) [E3RA-DN12 2M](#) [E3RA-DP12 2M](#) [E3S5LE4S](#) [E3S-AD38](#) [E3S-CR11 5M](#) [E3SCT11D5M](#) [E3SCT11M1J03M](#)
[E3T-CT22S](#) [E3T-FD12R](#) [E3T-SL14R](#) [E3T-SL24 5M](#) [E3T-ST12R](#) [E3T-ST24 2M](#) [E3X-CN02](#) [E3X-CN11 5M](#) [E3X-CN21 10M](#) [E3ZM-B66](#)
[E3ZM-CL81H 2M](#) [E3Z-T62 2M](#) [NJL5303R-TE1](#) [PB10CNT15PO](#) [PD60CNX20BP](#) [FZS](#) [CX-491-P-J](#) [CX-491-Z](#) [XUM2BKCNL2T](#)
[XUM2BKCNL2T](#) [XUM2BNANL2R](#) [Y92E-ES30M](#) [Y92E-GS08SS](#) [ZXTDS04T](#) [ZX-XC4A 4M](#) [E3E23Y2US](#) [E3JM-DS70S4-US](#) [E3RA-](#)
[RN11 2M](#) [E3S5LE42M](#) [E3S-LS20XB4 5M](#) [E3S-LS3PW 2M](#) [E3TFD14N](#) [E3T-FD14R](#) [E3T-SL21 5M](#) [E3T-SL21M](#) [E3T-ST11R](#) [E3T-ST12](#)
[5M](#) [E3X-DA41-S-M1J 0.3M](#) [E3X-DAB6](#) [E3X-DAG8](#) [E3ZM-B86](#)