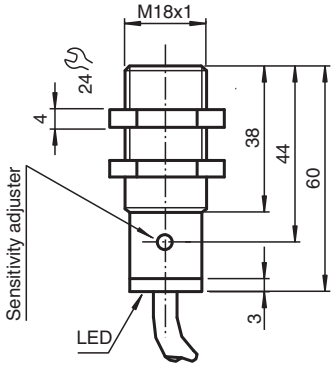
Diffuse mode sensor

OBT200-18GM60-E4

- Dual color indication LED
- High switching frequency
- Light-on/dark-on, programmable
- Strong metallic housing in cylindrical shape M18 x 1
- Degree of protection IP67

Diffuse mode sensor

Dimensions



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Technical Data

General specifications		
Detection range		0 ... 200 mm
Reference target		standard white 200 mm x 200 mm
Light source		IRED , 880 nm
Light type		infrared
Diameter of the light spot		approx. 40 mm at 200 mm
Ambient light limit		10000 Lux
Indicators/operating means		
Operation indicator		LED green
Function indicator		Dual color-LED, yellow/green yellow: switch state green: power on flashing: stability control
Control elements		Sensing 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 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
Standard conformity		
Standards 2		UL 508
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)
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		2 m fixed cable
Material		
Housing		brass, nickel-plated
Optical face		PC
Mass		110 g

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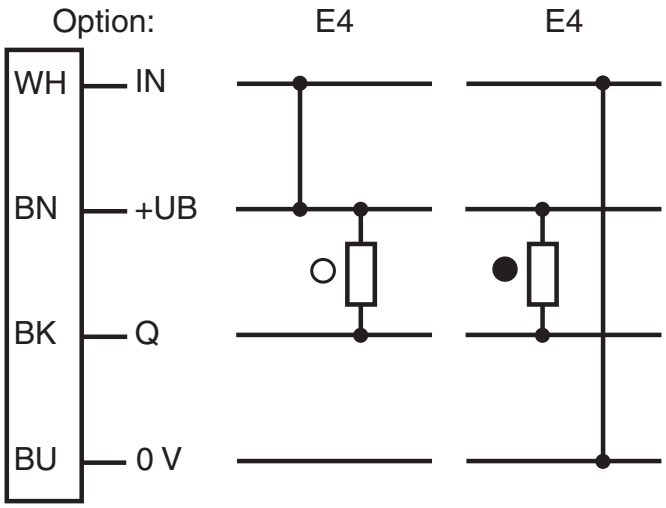
Connection Assignment

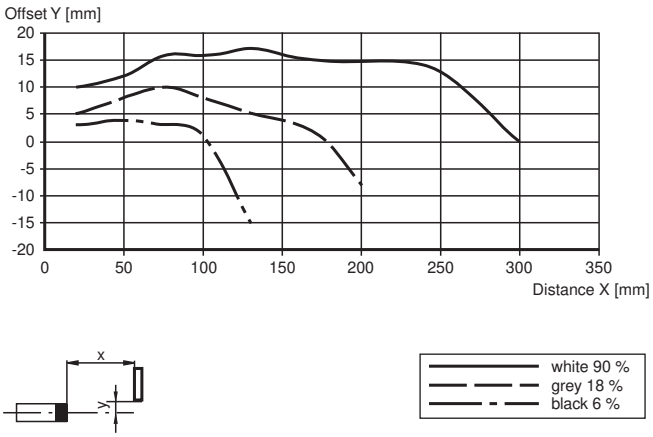


○ = Light on
● = Dark on

Characteristic Curve

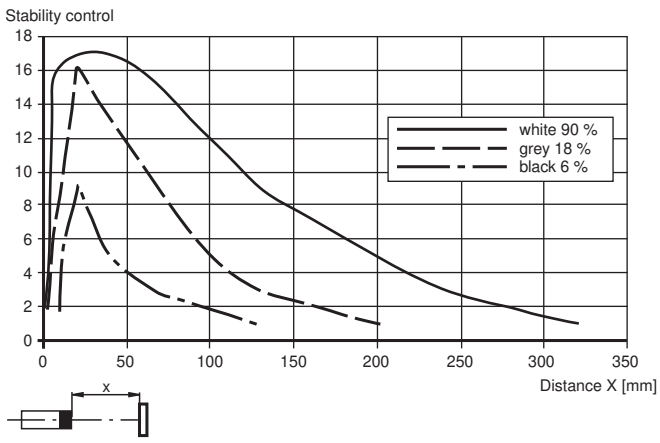
Characteristic response curve

OBT200-18GM60



Relative received light strength

OBT200-18GM60



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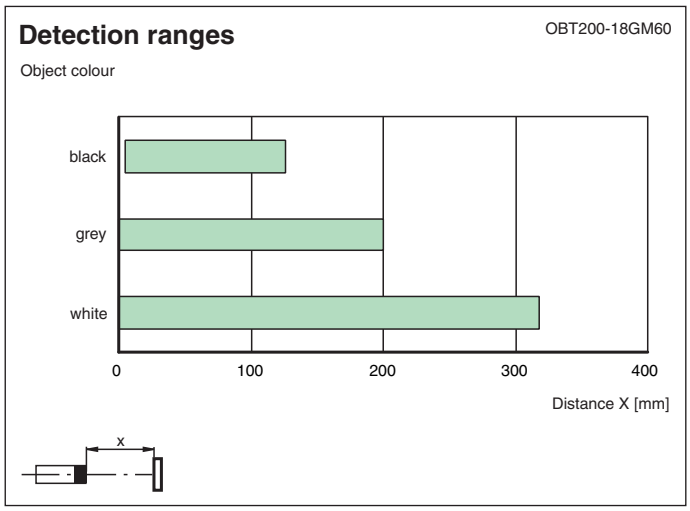
Characteristic Curve



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