

Diffuse mode sensor OBT200-18GM60-E4-V1

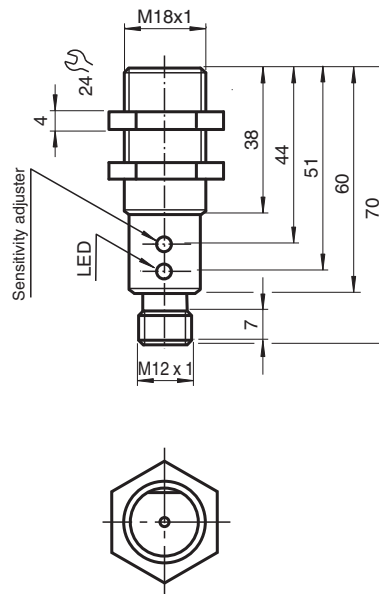


- Dual color indication LED
- High switching frequency
- Light-on/dark-on, programmable
- Strong metallic housing in cylindrical shape M18 x 1
- Degree of protection IP67

Diffuse mode sensor



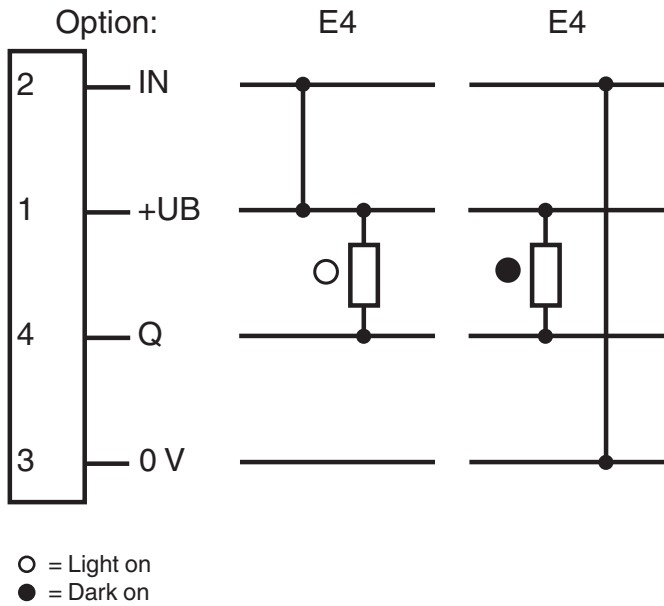
Dimensions



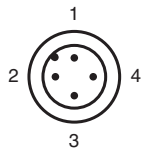
Technical Data

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			
EAC conformity		TR CU 020/2011	
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			4-pin, M12 x 1 connector
Material			
Housing			brass, nickel-plated
Optical face		PC	
Mass			45 g

Connection Assignment



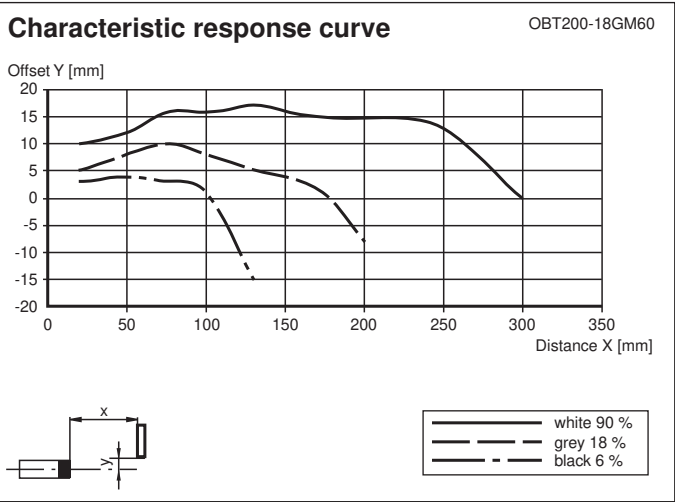
Connection Assignment



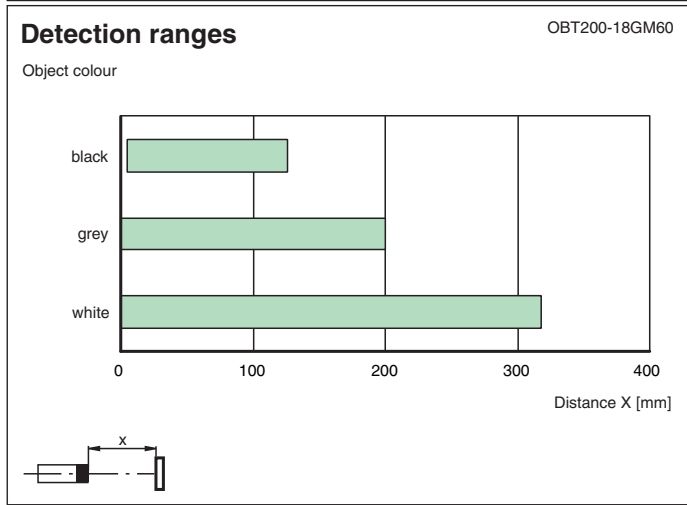
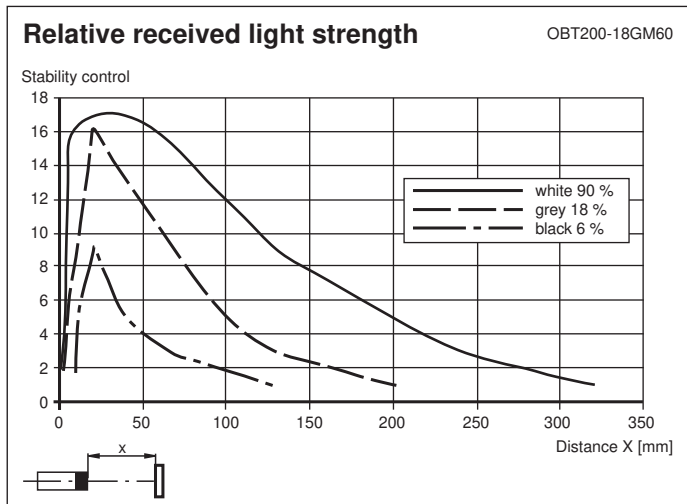
Wire colors in accordance with EN 60947-5-2

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

Characteristic Curve



Characteristic Curve



Accessories

	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey

Release date: 2022-08-08 Date of issue: 2022-08-08 Filename: 087991_eng.pdf