



Diffuse mode sensor OBD600-18GK40-E2



- Short design in M18 plastic housing
- Operating distance adjustable
- Not sensitive to ambient light
- Degree of protection IP67
- High operating distance

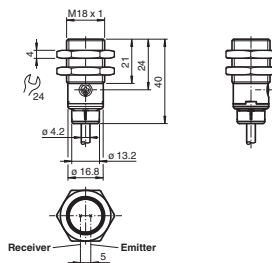
Diffuse mode sensor



Function

The optical sensors of this series have an M18 threaded housing that is optionally available in plastic or metal. The sensors are robust and versatile. Focusing on the essential requirements simplifies selection and commissioning, saving time and costs.

Dimensions



Technical Data

General specifications		
Detection range		0 ... 600 mm
Detection range min.		0 ... 30 mm
Detection range max.		0 ... 600 mm
Adjustment range		30 ... 600 mm
Reference target		standard white 200 mm X 200 mm
Light source		LED
Light type		modulated visible red light
Diameter of the light spot		approx. 40 mm at 600 mm
Opening angle		approx. 2.6 °
Optical face		frontal
Ambient light limit		EN 60947-5-2 20000 Lux
Hysteresis	H	< 15 %

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

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Technical Data

Functional safety related parameters

MTTF _d		1289 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %

Indicators/operating means

Operation indicator		LED green: on - power on flashing (4 Hz) - short circuit
Function indicator		LED yellow: constantly on - object detected constantly off - object not detected
Control elements		sensitivity adjustment

Electrical specifications

Operating voltage	U _B	10 ... 30 V DC
Ripple		max. 10 %
No-load supply current	I ₀	< 25 mA
Protection class		III

Output

Switching type		Q - Pin4: PNP normally open / light-on
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA , resistive load
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms

Conformity

Product standard		EN 60947-5-2
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Approvals and certificates

UL approval		E87056 , cULus Listed , class 2 power supply , type rating 1
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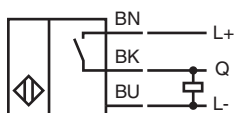
Ambient conditions

Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)

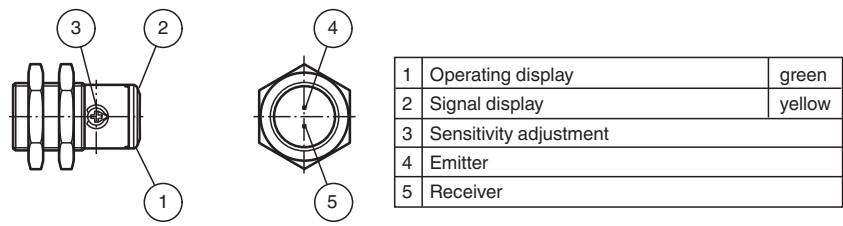
Mechanical specifications

Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Cable		PVC
Mass		approx. 54 g

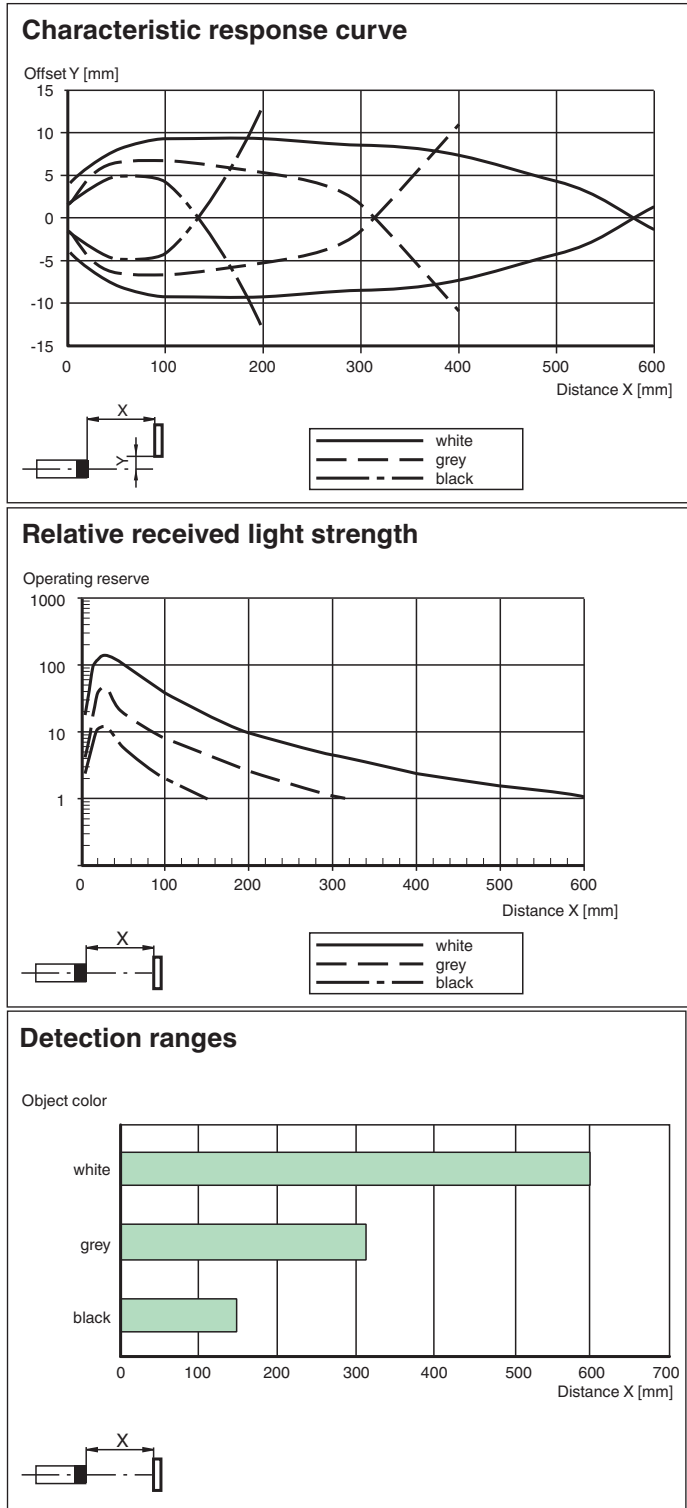
Connection



Indication



Characteristic Curve



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Accessories

	CPZ18B03	Mounting Bracket with swivel nut
	BF 18-F	Plastic mounting adapter, 18 mm
	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
	BF 18	Mounting flange, 18 mm
	OMH-04	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm