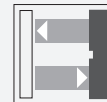




Diffuse mode sensor OBD600-18GM40-E0



- Strong metallic housing in cylindrical shape M18 x 1
- Operating distance adjustable
- Not sensitive to ambient light
- Degree of protection IP67
- High operating distance

Diffuse mode sensor



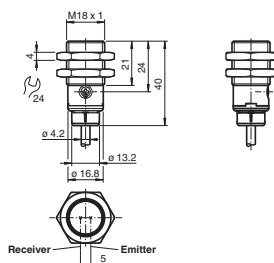
Function

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".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

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: NPN normally open / light-on
Signal output		1 NPN 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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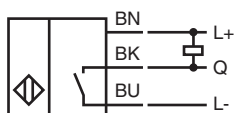
Ambient conditions

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

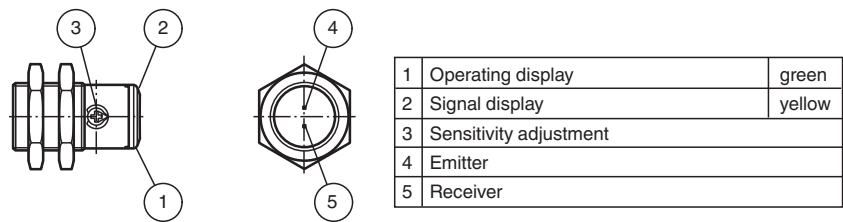
Mechanical specifications

Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		brass, nickel-plated
Optical face		PMMA
Cable		PVC
Mass		approx. 60 g

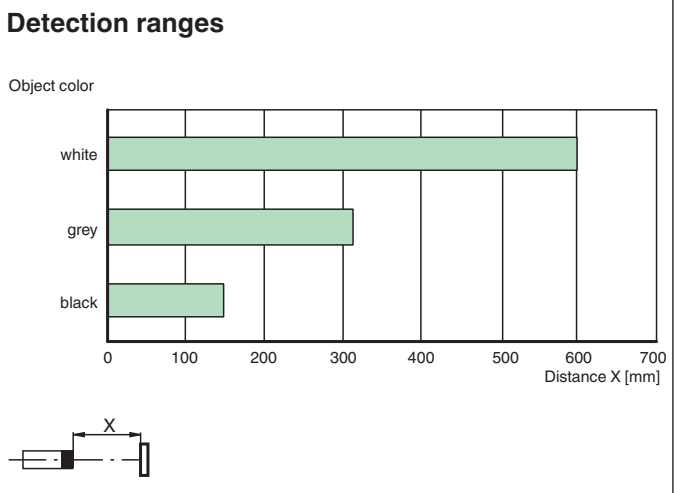
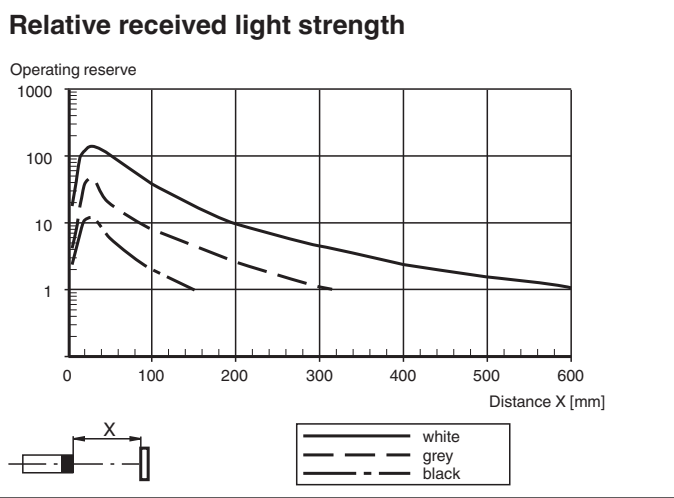
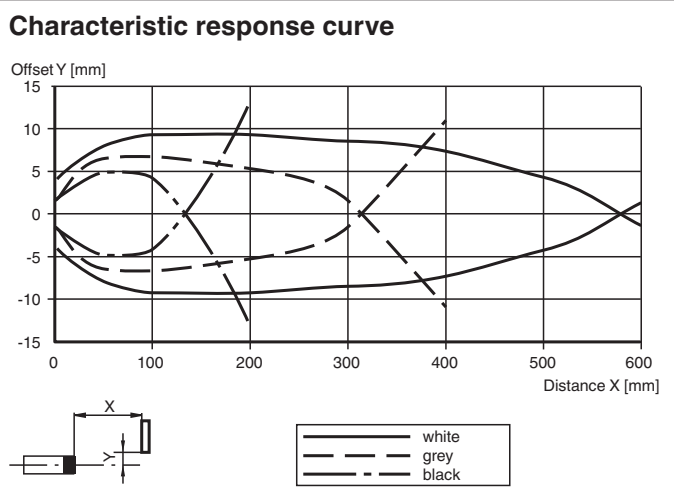
Connection



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