

Diffuse mode sensor, M18 threaded housing design, plastic housing, side optical face, 200 mm detection range, red light, light/dark on, DC version, 2 PNP outputs, M12 plug

#### **Function**

The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and AC/DC voltage systems without any over-engineering. The mounting set included in the scope of delivery and the optimized potentiometer design ensure fast assembly and easy configuration.

#### **Application**

Packaging industry:

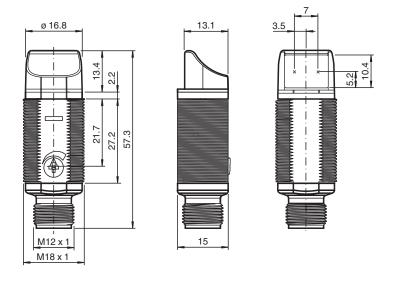
· Presence checks, track loading, completeness checks, stack height control

Material handling:

- · Presence checks, target sensor, profile checks, trigger sensor
- Automatic doors, gates and access systems, elevator:
- Secure detection for automatic door and gate systems
- Monitoring function in turnstiles
- · Closing edge monitoring in elevators

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

#### **Dimensions**



Tec		
ec		

General specifications		
Detection range		50 200 mm adjustable
Detection range max.		0 200 mm
Reference target		100 mm x 100 mm Kodak white
Light source		LED
Light type		modulated visible red light , 640 nm
Diameter of the light spot		approx. 15 mm at 200 mm
Opening angle		approx. 4 °
Optical face		lateral
Ambient light limit		30000 Lux
Hysteresis	Н	< 15 %
Functional safety related parameters		
MTTF <sub>d</sub>		920 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green, statically lit Power on
Function indicator		LED yellow: lights when object is detected ; flashes when falling short of the operating reserve
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	UB	10 30 V DC
No-load supply current	I <sub>0</sub>	< 20 mA
Output		

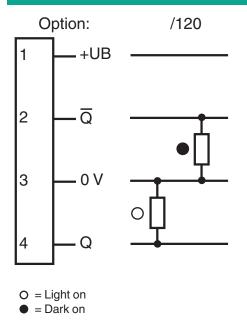
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## GLV18-8-200-S/73/120

Technical Data		
Switching type		light/dark on
Signal output		2 PNP, complementary, short-circuit protected, open collectors
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	U <sub>d</sub>	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
Protection class		II, Rated insulation voltage $\leq$ 50 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus Listed, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		4-pin, M12 x 1 connector
Material		
Housing		PC
Optical face		РММА
Connector		plastic
Mass		approx. 10 g

Connection



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

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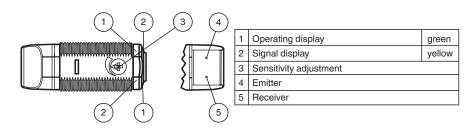
# **Connection Assignment**



Wire colors in accordance with EN 60947-5-2

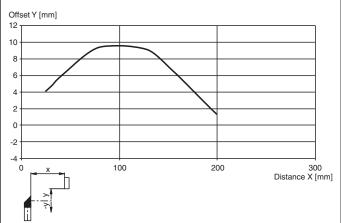
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

#### Assembly



#### **Characteristic Curve**

# Characteristic response curve

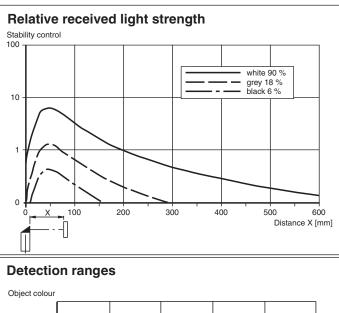


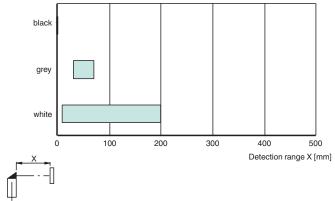
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# **Characteristic Curve**





## Accessories

0	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
	BF 18-F	Plastic mounting adapter, 18 mm
1000	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 30 mm
ø /	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
<b>6</b> /	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey

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

