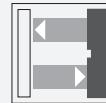


Diffuse mode sensor

GLV18-8-200-S/73/120



- Efficient Line in a short M18 plastic housing for standard applications
- 4 LEDs indicator for 360° visibility
- Optimized potentiometer design for a clear control button layout in the application
- Sidelookerversion
- DC voltage version

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

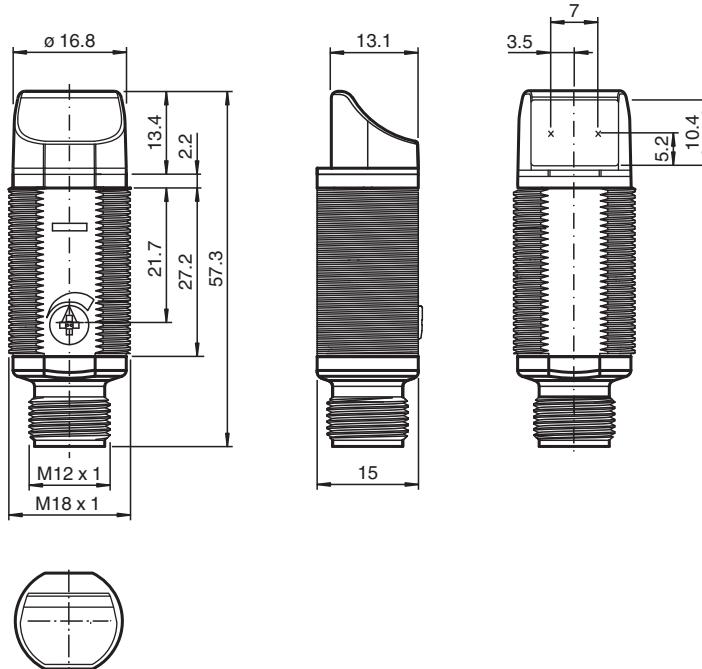
Material handling:

- 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

Dimensions



Technical Data

Release date: 2023-03-28 Date of issue: 2023-03-28 Filename: 190549_eng.pdf

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	H	< 15 %

Functional safety related parameters

MTTF _d	920 a	
Mission Time (T _M)	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	U _B	10 ... 30 V DC
No-load supply current	I ₀	< 20 mA

Output

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

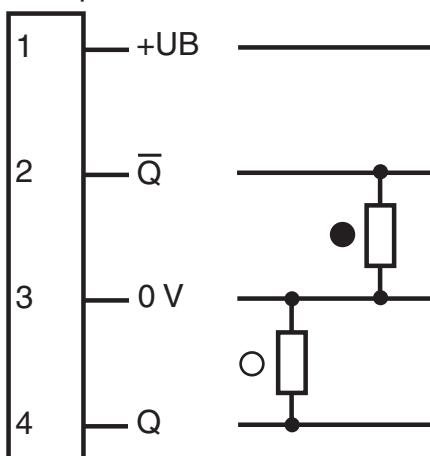
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 PEPPERL+FUCHS

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_d	≤ 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 ≤ 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	PMMA	
Connector	plastic	
Mass	approx. 10 g	

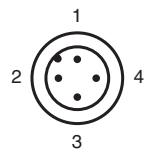
Connection

Option: /120



○ = Light on
 ● = Dark on

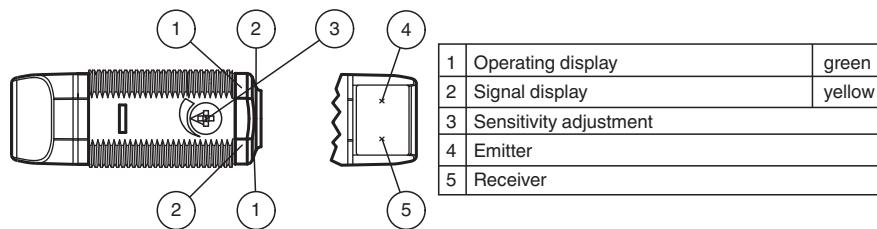
Connection Assignment



Wire colors in accordance with EN 60947-5-2

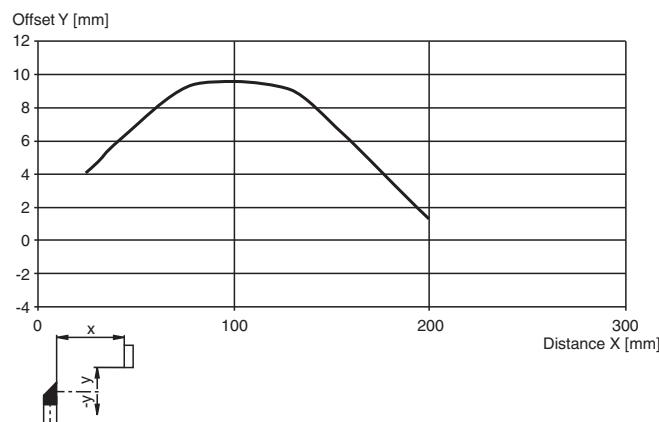
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Assembly

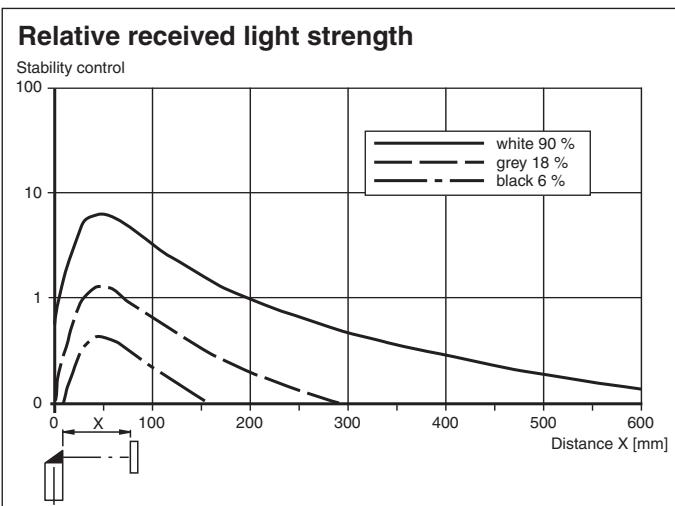


Characteristic Curve

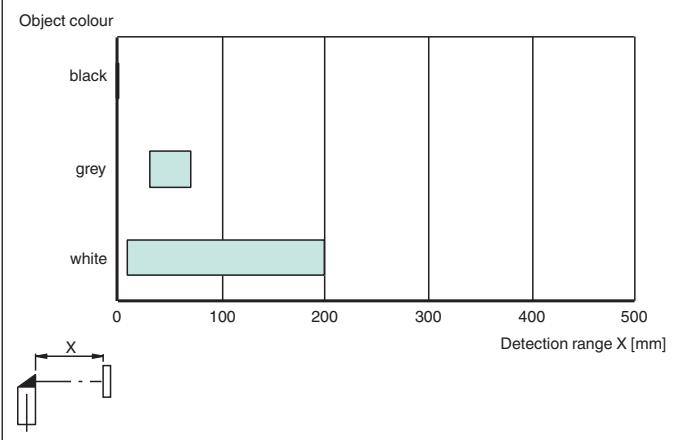
Characteristic response curve



Characteristic Curve



Detection ranges



Accessories

	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
	BF 18-F	Plastic mounting adapter, 18 mm
	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
	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