



Diffuse mode sensor

GLK18-8-400-S/25/161/166



- Short design in M18 plastic housing
- Sidelookerversion
- 4 LEDs indicator for 360° visibility
- Optimal price/power ratio
- Optimized potentiometer design for a clear control button layout in the application
- Universal usage at different power supplies

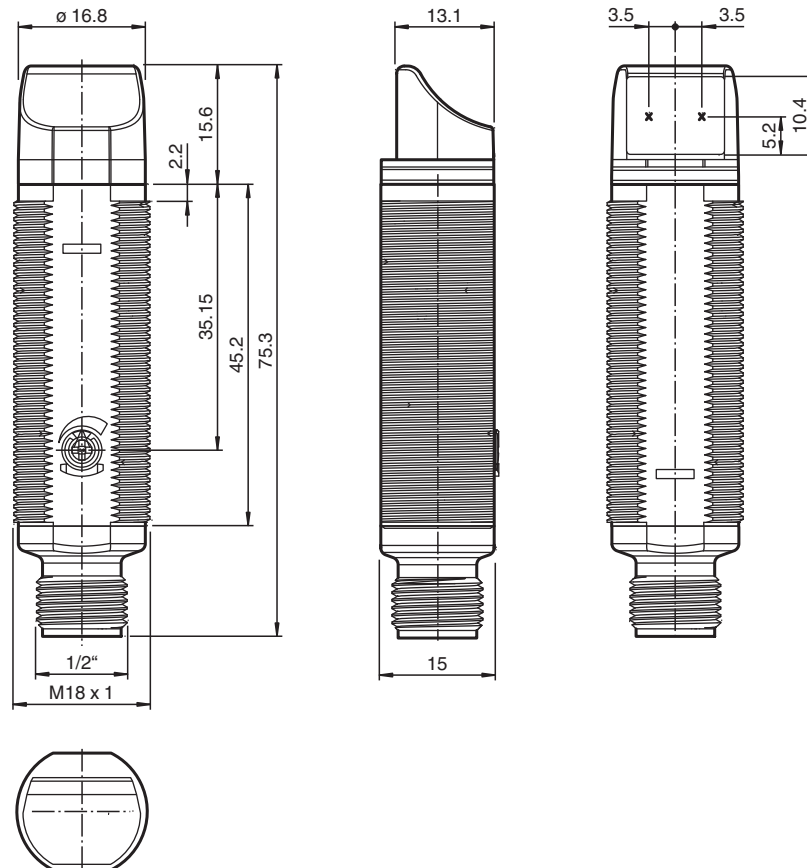
Diffuse mode sensor, M18 threaded housing design, plastic housing, side optical face, 400 mm detection range, red light, light on, AC/DC version, NPN-FET output, micro plug



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.

Dimensions



Technical Data

General specifications			
Detection range			50 ... 400 mm adjustable
Detection range max.			0 ... 400 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. 30 mm at 400 mm
Angle of divergence			approx. 4 °
Optical face			lateral
Ambient light limit			30000 Lux ; according to EN 60947-5-2:2007
Hysteresis	H		< 15 %
Accessories provided			Mounting aids
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 stability control
Control elements			sensitivity adjustment
Electrical specifications			
Operating voltage	U _B		20 ... 250 V AC/DC
No-load supply current	I ₀		< 2.5 mA
Output			
Switching type			light-on
Signal output			N-channel MOSFET, short circuit protected
Switching voltage			max. 250 V AC/DC
Switching current			max. 200 mA
Voltage drop	U _d		≤ 3.5 V AC/DC
Switching frequency	f		50 Hz
Response time			≤ 10 ms
Conformity			
Product standard			EN 60947-5-2
Compliance with standards and directives			
Standard conformity			
Standards			UL 508
Approvals and certificates			
EAC conformity			TR CU 020/2011 TR CU 004/2011
Protection class			II, rated insulation voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval			cULus Listed, Type 1 enclosure
CCC approval			Certified by China Compulsory Certification (CCC)
Approvals			CE
Ambient conditions			
Ambient temperature			-20 ... 60 °C (-4 ... 140 °F)
Storage temperature			-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications			
Degree of protection			IP67
Connection			Micro AC connector, 1/2" V124 ; 4-pin
Material			
Housing			PC-PBT
Optical face			PMMA
Mass			approx. 10 g

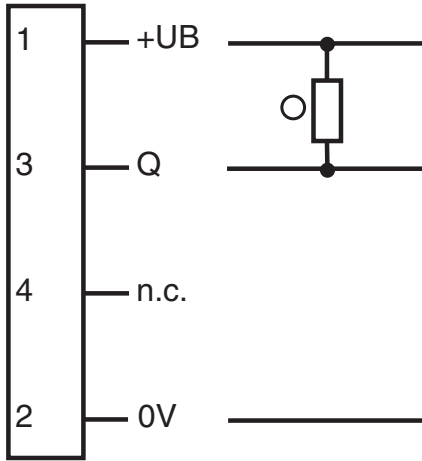
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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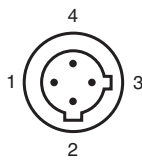
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Connection Assignment



○ = Light on
● = Dark on

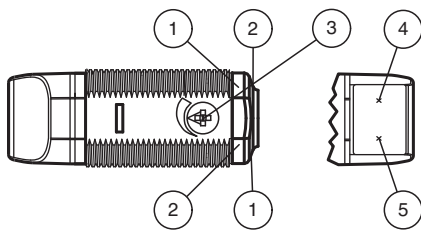
Connection Assignment



Wire colors

- 1 | RD/BK (red/black)
- 2 | RD/WH (red/white)
- 3 | RD (red)
- 4 | GN (green)

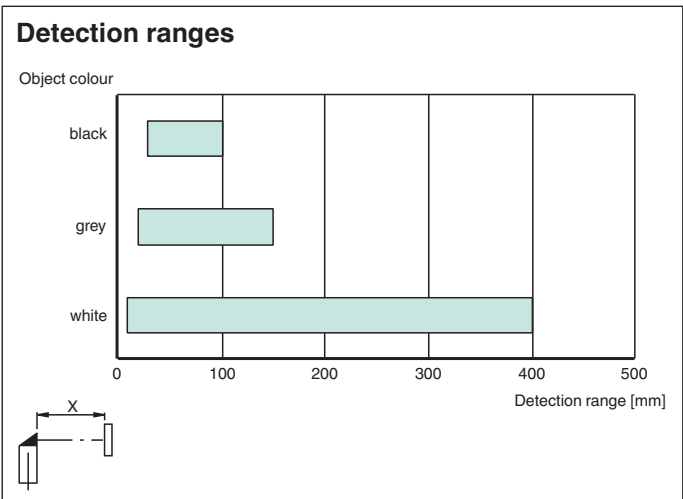
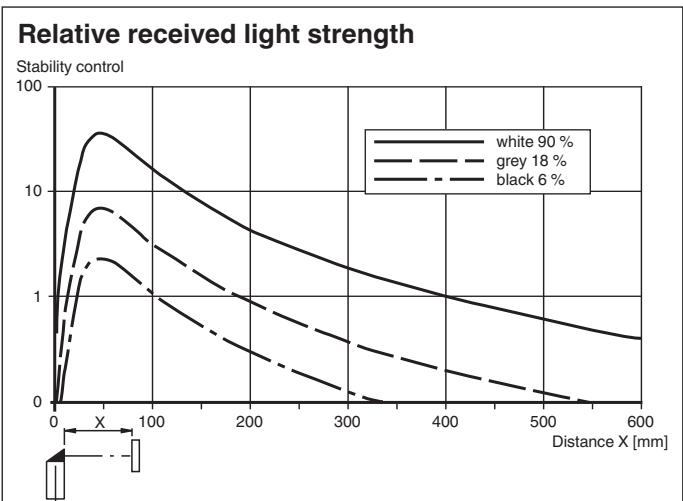
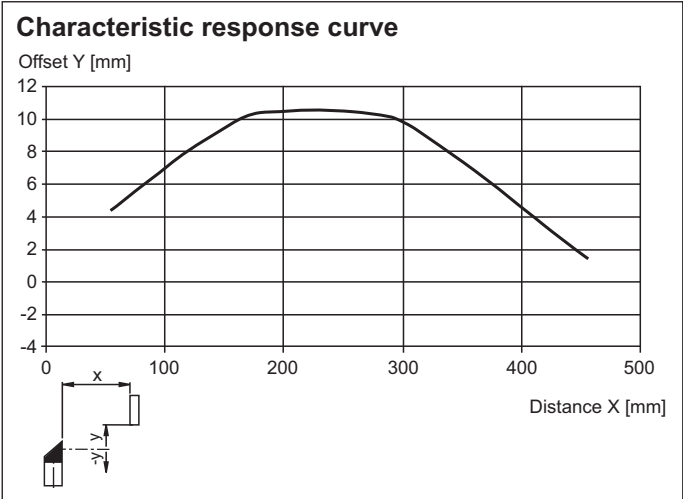
Assembly



1	Operating display	green
2	Signal display	yellow
3	Sensitivity adjustment	
4	Emitter	
5	Receiver	

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Characteristic Curve









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Application



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
	V124-G-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable
	V124-W-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable

Accessories

Other suitable accessories can be found at www.pepperl-fuchs.com

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