Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 199816_eng.pdf

Diffuse mode sensor







- Efficient Line in a short M18 plastic housing for standard applications
- Very high detection range
- 4 LEDs indicator for 360° visibility
- 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, front optical face, 450 mm detection range, red light, dark on, AC/DC version, NPN-FET output, micro plug







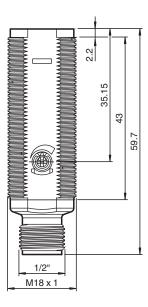




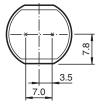
Function

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

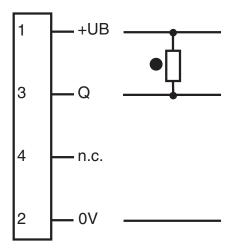






Technical Data **General specifications** 50 ... 450 mm adjustable Detection range Detection range max. 0 450 mm 100 mm x 100 mm Kodak white Reference target Light source **LED** modulated visible red light, 640 nm Light type Diameter of the light spot approx. 15 mm at 400 mm Angle of divergence approx. 2° Optical face frontal Ambient light limit 30000 Lux; according to EN 60947-5-2:2007 Hysteresis Н < 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 $< 2.5 \, \text{mA}$ Output Switching type dark on Signal output N-channel MOSFET, short circuit protected max. 250 V AC/DC Switching voltage Switching current max. 200 mA ≤ 3.5 V AC/DC Voltage drop U_{d} Switching frequency 50 Hz ≤ 10 ms Response time 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 II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 Protection class **UL** approval cULus Listed, Type 1 enclosure CCC approval Certified by China Compulsory Certification (CCC) Approvals **Ambient conditions** -20 ... 60 °C (-4 ... 140 °F) Ambient temperature -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications Degree of protection IP67 Connection Micro AC connector, 1/2" V124; 4-pin Material PC-PBT Housing Optical face **PMMA** Mass approx. 10 g

Connection Assignment



- O = Light on
- = Dark on

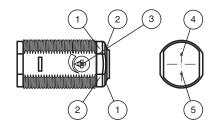
Connection Assignment



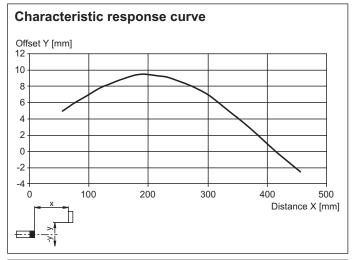
Wire colors

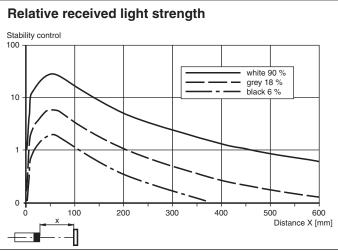
- RD/BK (red/black) 2 RD/WH (red/white)
- RD (red) GN (green)

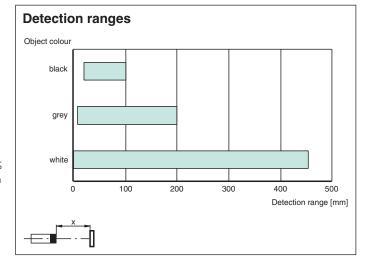
Assembly



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









Accessories				
0	CPZ18B03	Mounting Bracket with swivel nut		
	BF 18	Mounting flange, 18 mm		
54	BF 18-F	Plastic mounting adapter, 18 mm		
1000 1000	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		

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