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# Diffuse mode sensor GLV18-8-200/73/120



- 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
- Version with front optical face
- DC voltage version

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



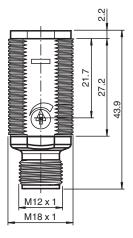


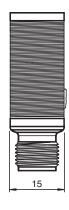


### **Function**

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.

### **Dimensions**

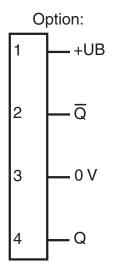


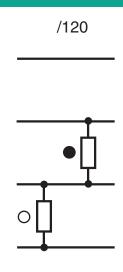




### Technical Data **General specifications** 50 ... 200 mm adjustable Detection range 0 ... 200 mm Detection range max. 100 mm x 100 mm Kodak white Reference target Light source **LED** modulated visible red light, 640 nm Light type Diameter of the light spot approx. 15 mm at 200 mm Angle of divergence approx. 4° Optical face frontal Ambient light limit 30000 Lux Hysteresis Н < 15 % Functional safety related parameters 920 a $\mathsf{MTTF}_\mathsf{d}$ 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 stability Control elements sensitivity adjustment **Electrical specifications** Operating voltage $U_B$ 10 ... 30 V DC No-load supply current < 20 mA $I_0$ Output Switching type light/dark on Signal output 2 PNP, complementary, short-circuit protected, open collectors Switching voltage max. 30 V DC max. 100 mA Switching current ≤ 1.5 V DC Voltage drop $U_{\text{d}}$ Switching frequency 500 Hz Response time ≤ 1 ms Conformity EN 60947-5-2 Product standard Approvals and certificates Protection class II, Rated insulation voltage ≤ 50 V AC with pollution degree 1-2 according to IEC **UL** approval cULus Listed, Class 2 Power Source CCC approval CCC approval / marking not required for products rated ≤36 V **Ambient conditions** -25 ... 60 °C (-13 ... 140 °F) Ambient temperature -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications Degree of protection Connection 4-pin, M12 x 1 connector Material PC Housing Optical face **PMMA** Connector plastic Mass approx. 10 g

### **Connection Assignment**





O = Light on

= Dark on

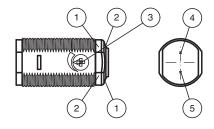
### **Connection Assignment**



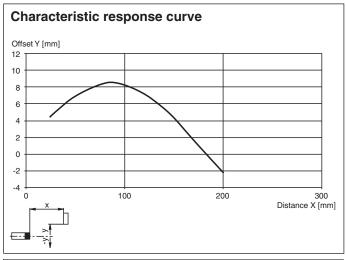
Wire colors in accordance with EN 60947-5-2

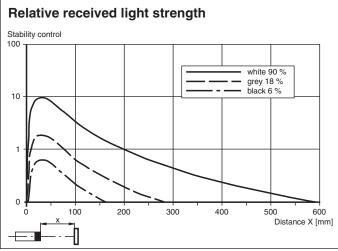
1 BN (brown)
2 WH (white)
3 BU (blue)
4 BK (black)

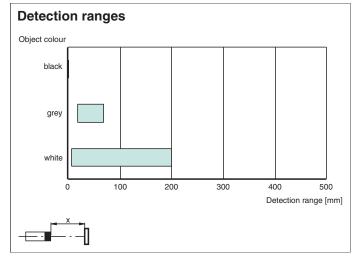
## Assembly



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







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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