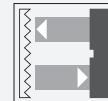




## Retroreflective sensor

### GLV18-6/25/103/159



- 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
- Version with front optical face
- DC voltage version

Retroreflective sensor, M18 threaded housing design, plastic housing, front optical face, 6.5 m detection range, red light, light on, DC version, PNP output, 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

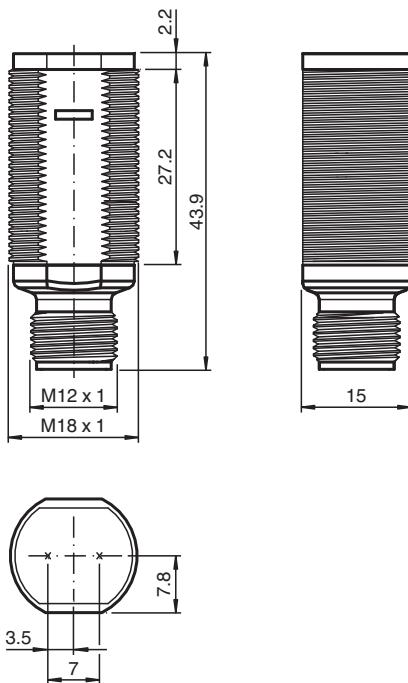
Material handling:

- 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: 193024\_eng.pdf

### General specifications

Effective detection range	0 ... 6.5 m
Reflector distance	0.05 ... 6.5 m
Threshold detection range	8 m
Reference target	reflector C110-2
Light source	LED
Light type	modulated visible red light , 640 nm
Polarization filter	no
Diameter of the light spot	approx. 300 mm at 8 m
Opening angle	approx. 2 °
Optical face	frontal
Ambient light limit	30000 Lux

### 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 up when receiving the light beam ; flashes when falling short of the operating reserve; OFF when light beam is interrupted

### Electrical specifications

Operating voltage	U <sub>B</sub>	10 ... 30 V DC
No-load supply current	I <sub>0</sub>	< 20 mA

### Output

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

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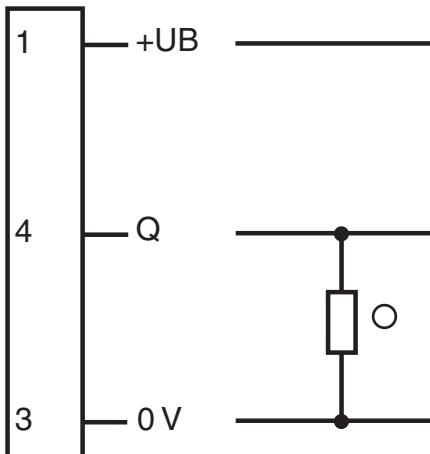
 PEPPERL+FUCHS

## Technical Data

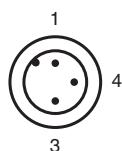
Switching type	light-on	
Signal output	1 PNP, short-circuit protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop	$U_d$	$\leq 1.5$ V DC
Switching frequency	$f$	500 Hz
Response time	$\leq 1$ ms	
<b>Conformity</b>		
Product standard	EN 60947-5-2	
<b>Approvals and certificates</b>		
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 $\leq 36$ V	
<b>Ambient conditions</b>		
Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)	
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)	
<b>Mechanical specifications</b>		
Degree of protection	IP67	
Connection	3-pin, M12 x 1 connector	
Material		
Housing	PC	
Optical face	PMMA	
Connector	plastic	
Mass	approx. 10 g	

## Connection Assignment

Option: 103



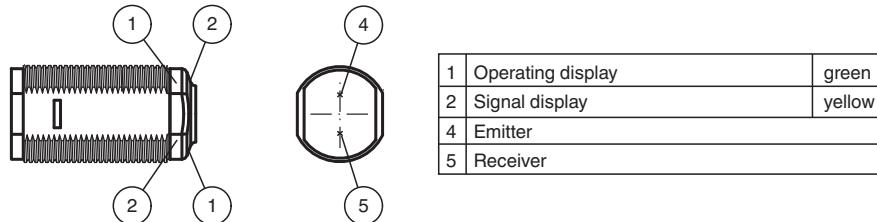
○ = Light on  
 ● = Dark on



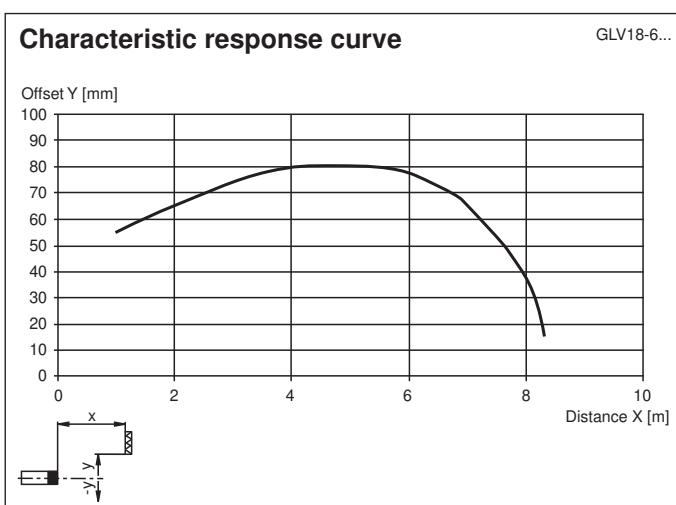
Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

## Assembly

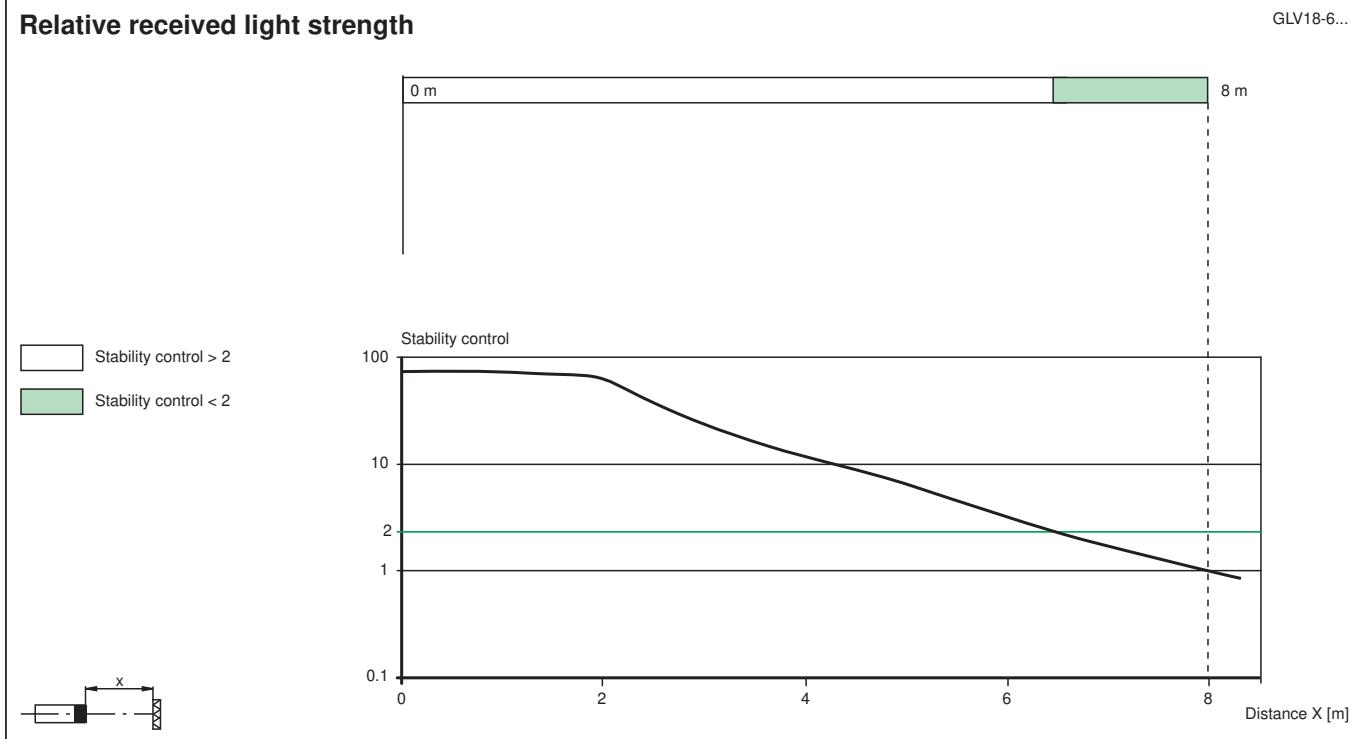


## Characteristic Curve



## Relative received light strength

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## Accessories

	<b>CPZ18B03</b>	Mounting Bracket with swivel nut
	<b>BF 18</b>	Mounting flange, 18 mm
	<b>BF 18-F</b>	Plastic mounting adapter, 18 mm
	<b>BF 5-30</b>	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
	<b>V11-G-2M-PUR</b>	Female cordset single-ended M12 straight A-coded, 3-pin, PUR cable grey