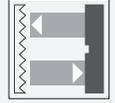


# Retroreflective sensor

## GLV18-6-4594



- Short design in M18 plastic housing
- 4 LEDs indicator for 360° visibility
- Optimal price/power ratio

### Retroreflective sensor



### 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

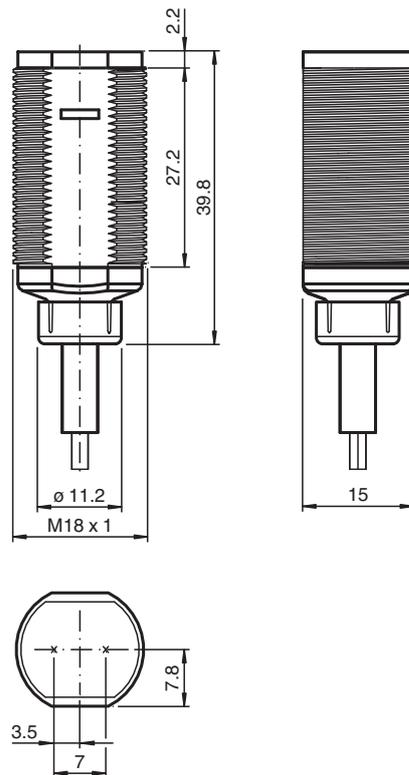
#### Material handling:

- 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

General specifications	
Effective detection range	0 ... 4 m
Reflector distance	0.05 ... 4 m
Threshold detection range	5.5 m
Reference target	reflector C110-2
Light source	IRED
Light type	IRED , Modulated light , 880 nm
Polarization filter	no
Diameter of the light spot	approx. 200 mm at 5.5 m
Opening angle	approx. 2 °
Optical face	frontal
Ambient light limit	30000 Lux
Accessories provided	Mounting aids
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	$U_B$ 10 ... 30 V DC
No-load supply current	$I_0$ < 20 mA
Output	
Switching type	light-on

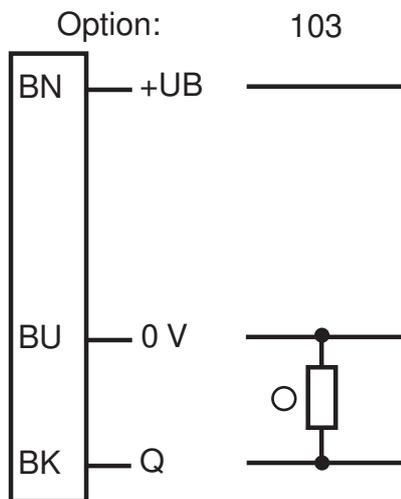
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

## Technical Data

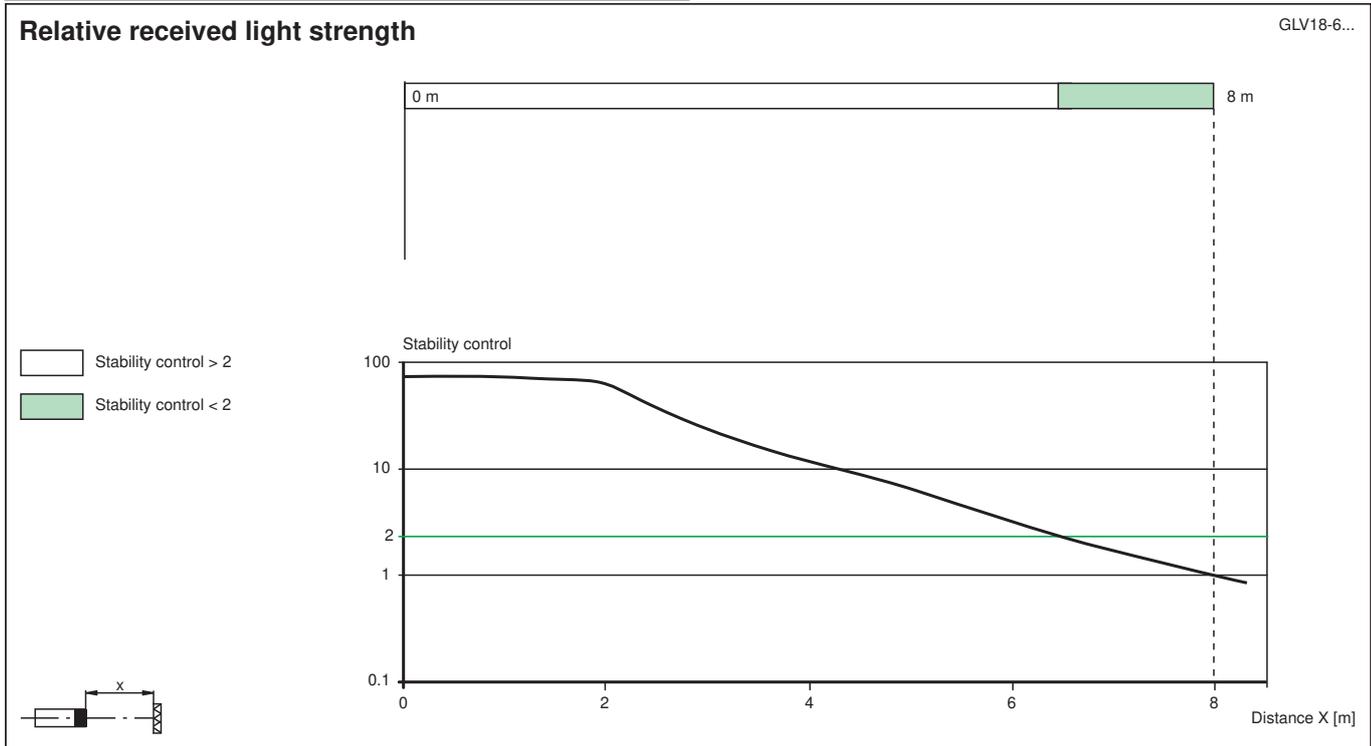
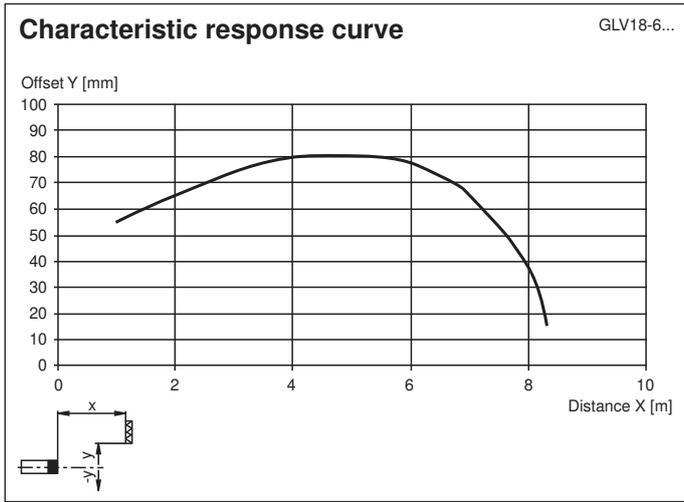
Signal output	1 PNP, short-circuit protected, open collector	
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	$U_d$	$\leq 1.5$ V DC
Switching frequency	$f$	500 Hz
Response time		$\leq 1$ ms
<b>Conformity</b>		
Product standard		EN 60947-5-2
<b>Approvals and certificates</b>		
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		fixed cable 7000 mm
<b>Material</b>		
Housing		PC
Optical face		PMMA
Mass		approx. 270 g

## Connection Assignment



- = Light on
- = Dark on

**Characteristic Curve**



**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

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