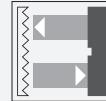




Retroreflective sensor

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

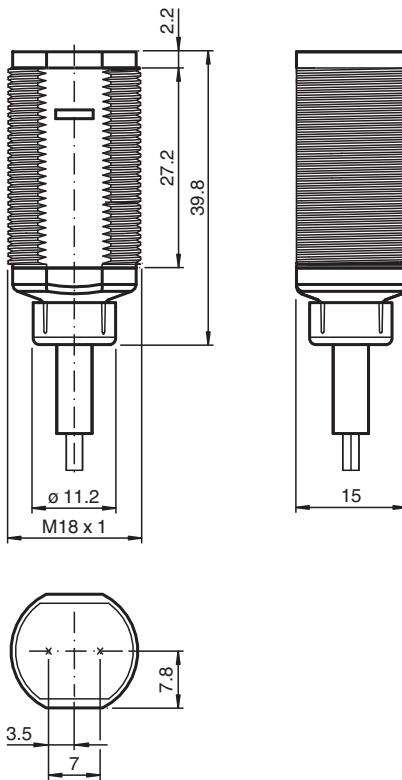
Material handling:

- 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

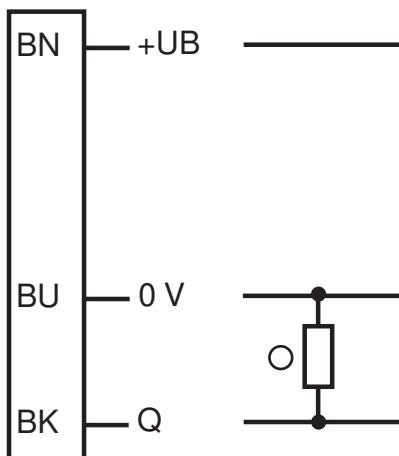
Switching type	light-on
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Technical Data

Signal output	1 PNP, short-circuit protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop	U_d	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms
Conformity		
Product standard	EN 60947-5-2	
Approvals and certificates		
Protection class	II, Rated insulation voltage ≤ 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 ≤ 36 V	
Ambient conditions		
Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)	
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)	
Mechanical specifications		
Degree of protection	IP67	
Connection	fixed cable 7000 mm	
Material		
Housing	PC	
Optical face	PMMA	
Mass	approx. 270 g	

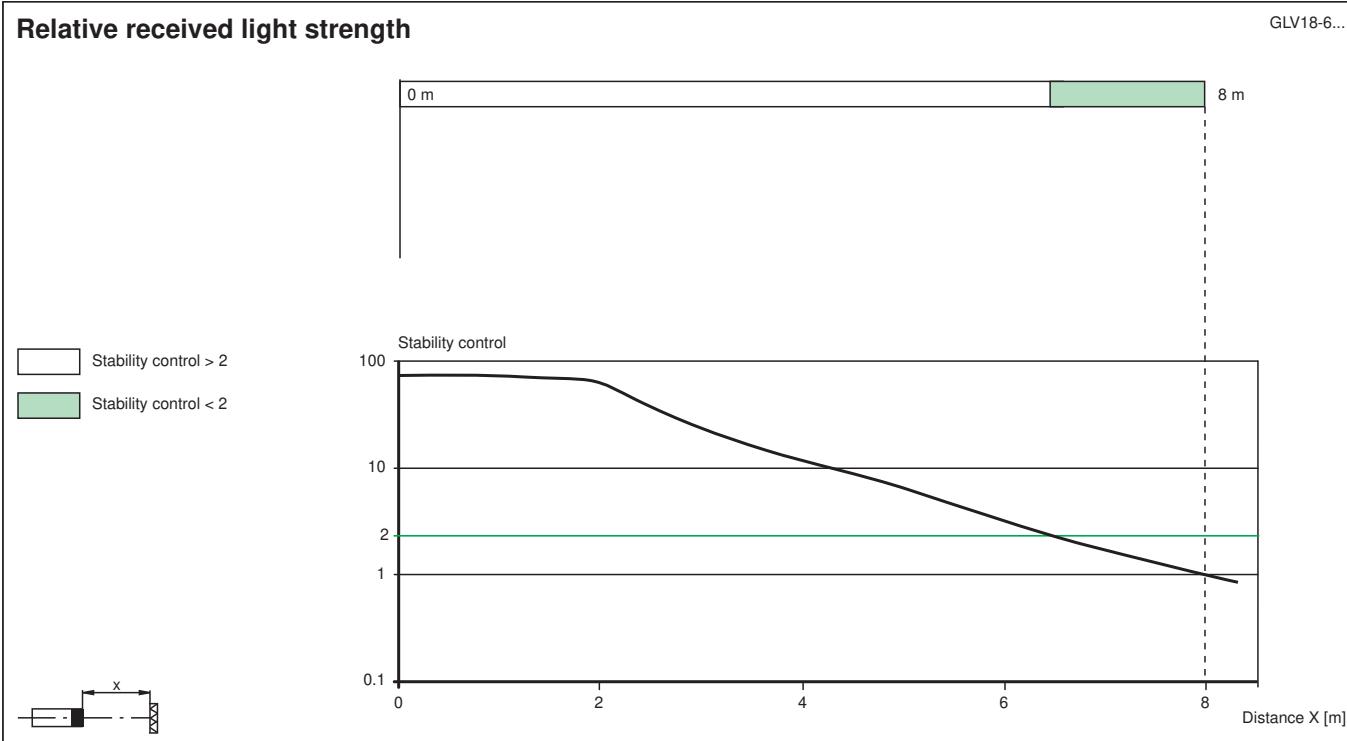
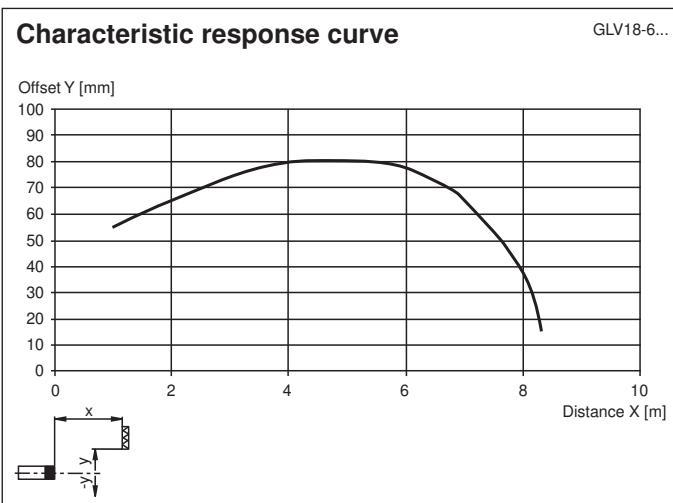
Connection Assignment

Option: 103



○ = Light on
● = Dark on

Characteristic Curve



Accessories

Release date: 2023-04-04 Date of issue: 2023-04-04 Filename: 219057_eng.pdf

	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

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

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