Retroreflective sensor

GLV18-55-S/73/120





- Efficient Line in a short M18 plastic housing for standard applications
- Very high detection range
- 4 LEDs indicator for 360° visibility
- Sidelookerversion
- DC voltage version

Retroreflective sensor with polarization filter, M18 threaded housing design, plastic housing, side optical face, 3.5 m 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.

Application

Packaging industry:

· Presence checks, track loading, completeness checks, stack height control

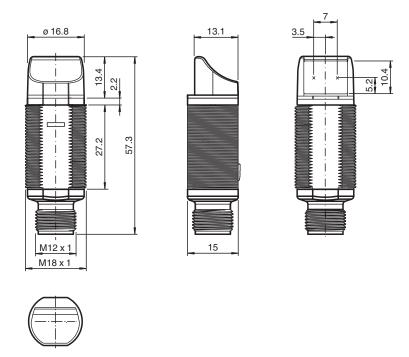
Material handling:

· 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



	cal		

General specifications	
Effective detection range	0 3.5 m
Reflector distance	0.05 3.5 m
Threshold detection range	4.5 m
Reference target	reflector C110-2
Light source	LED
Light type	modulated visible red light, 640 nm
Polarization filter	yes
Diameter of the light spot	approx. 160 mm at 4.5 m
Opening angle	approx. 2 °
Optical face	lateral
Ambient light limit	30000 Lux
Functional safety related parameters	
MTTF _d	920 a
Mission Time (T _M)	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	10 30 V DC
No-load supply current I ₀	< 20 mA
Output	

Switching type

Signal output

Voltage drop

Conformity

Switching voltage

Switching current

Switching frequency Response time

Product standard

Protection class

Approvals and certificates

light/dark on

max. 30 V DC

max. 100 mA

EN 60947-5-2

≤ 1.5 V DC

500 Hz

≤1 ms

 U_{d}

f

2 PNP, complementary, short-circuit protected, open collectors

II, Rated insulation voltage ≤ 50 V AC with pollution degree 1-2 according to IEC

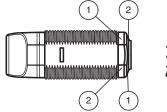
Connection Assignment

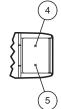


Wire colors in accordance with EN 60947-5-2

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

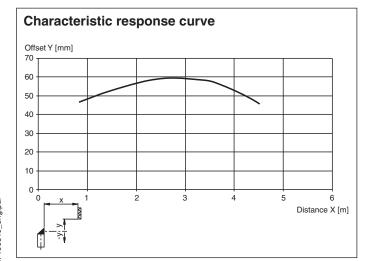
Assembly

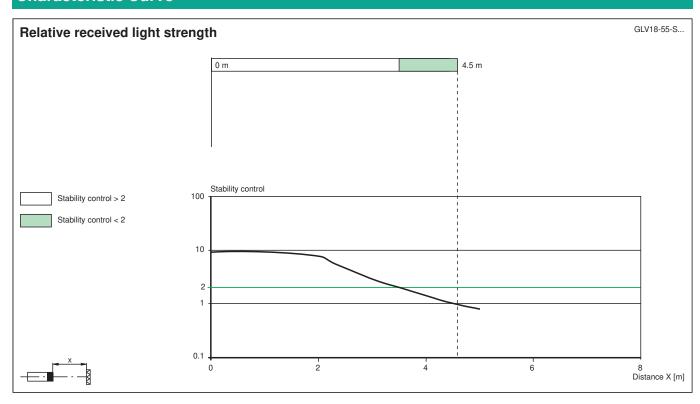




1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

Characteristic Curve





Accessories

0	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
511	BF 18-F	Plastic mounting adapter, 18 mm
000	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 30 mm
6/	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
61	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey