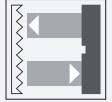




Retroreflective sensor GLK18-55-S/59/161/166



- Efficient Line in a short M18 plastic housing for standard applications
- Very high detection range
- 4 LEDs indicator for 360° visibility
- Sidelookerversion
- Universal usage at different power supplies

Retroreflective sensor with polarization filter, M18 threaded housing design, plastic housing, side optical face, 3.5 m detection range, red light, dark on, AC/DC version, NPN-FET output, micro 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

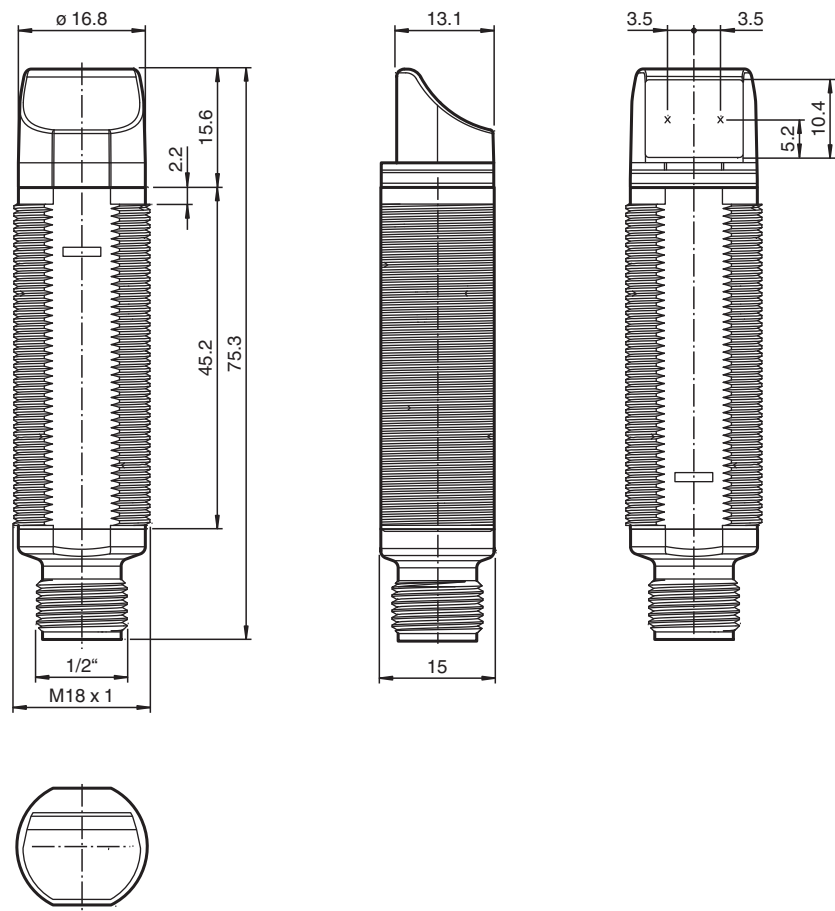
Material handling:

- 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

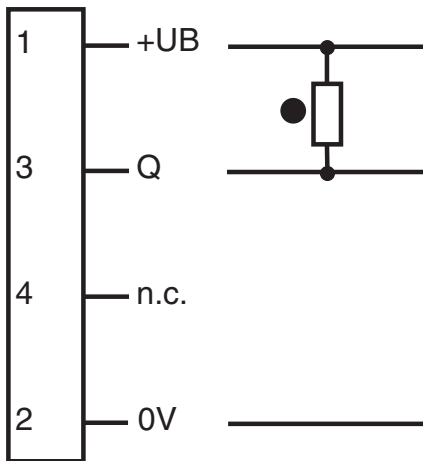
General specifications			
Effective detection range			0 ... 3.5 m
Reflector distance			0.05 ... 3.5 m
Threshold detection range			4.5 m
Reference target			reflector C110-2
Light source			LED
Light type			modulated visible red light , 640 nm
Polarization filter			yes
Diameter of the light spot			approx. 160 mm at 4.5 m
Opening angle			approx. 2 °
Optical face			lateral
Ambient light limit			30000 Lux
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		20 ... 250 V AC/DC
No-load supply current	I ₀		< 2.5 mA
Output			
Switching type			dark-on

Release date: 2022-11-18 Date of issue: 2022-11-18 Filename: 199802_eng.pdf

Technical Data

Signal output	N-channel MOSFET, short circuit protected	
Switching voltage		max. 250 V AC/DC
Switching current		max. 200 mA
Voltage drop	U _d	≤ 3.5 V AC/DC
Switching frequency	f	50 Hz
Response time		≤ 10 ms
Conformity		
Product standard		EN 60947-5-2
Compliance with standards and directives		
Standard conformity		
Standards		UL 508
Approvals and certificates		
Protection class		II, rated insulation voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus Listed, Type 1 enclosure
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		Micro AC connector, 1/2" V124 ; 4-pin
Material		
Housing		PC-PBT
Optical face		PMMA
Mass		approx. 10 g

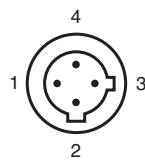
Connection Assignment



○ = Light on
● = Dark on

Release date: 2022-11-18 Date of issue: 2022-11-18 Filename: 199802_eng.pdf

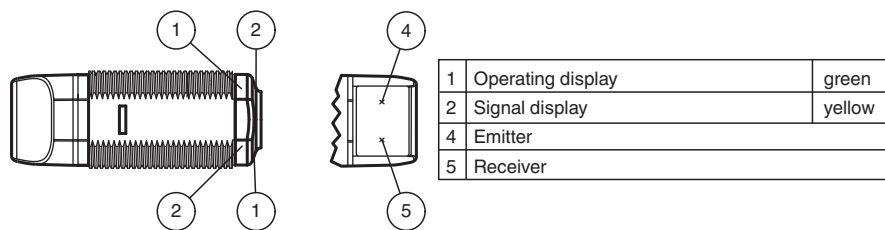
Connection Assignment



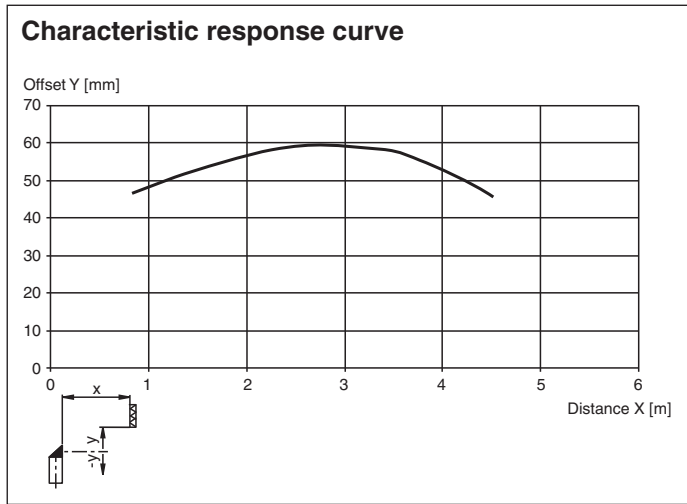
Wire colors

- 1 RD/BK (red/black)
- 2 RD/WH (red/white)
- 3 RD (red)
- 4 GN (green)

Assembly



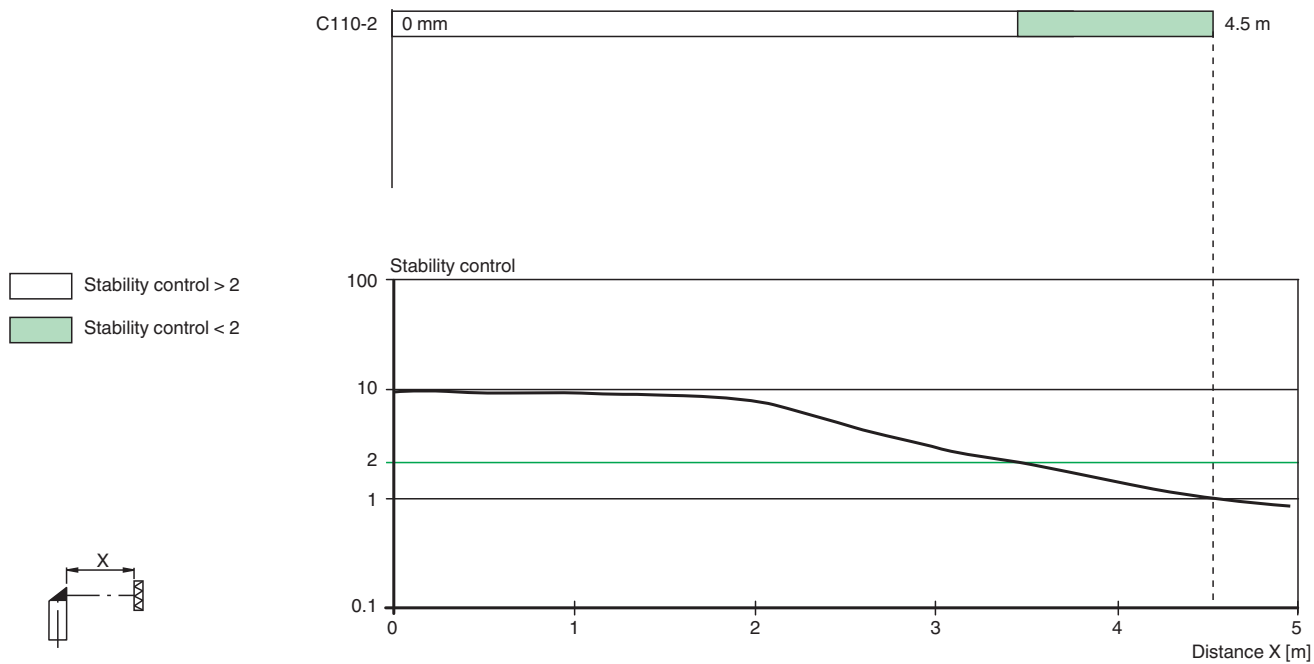
Characteristic Curve



Release date: 2022-11-18 Date of issue: 2022-11-18 Filename: 199802_eng.pdf

Characteristic Curve

Relative received light strength



Accessories

	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
	V124-G-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable
	V124-W-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable

Release date: 2022-11-18 Date of issue: 2022-11-18 Filename: 199802_eng.pdf