

Retroreflective sensor

GLV18-6/115/120



- 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/dark on, DC version, 2 PNP outputs, fixed cable









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

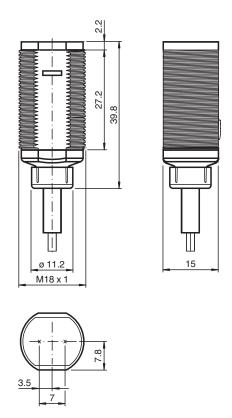
Material handling:

· 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



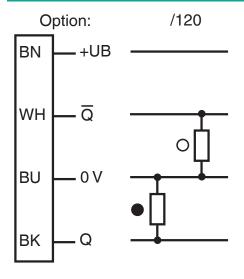
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General specifications

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 _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 _B	10 30 V DC		

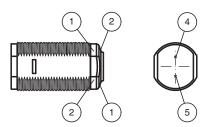
Technical Data		
No-load supply current	I ₀	< 20 mA
Output		
Switching type		light/dark on
Signal output		2 PNP, complementary, short-circuit protected, open collectors
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		≤1 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
Protection class		II, Rated insulation voltage \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 ≤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		2 m fixed cable
Material		
Housing		PC
Optical face		PMMA
Cable		PVC
Mass		approx. 75 g

Connection Assignment



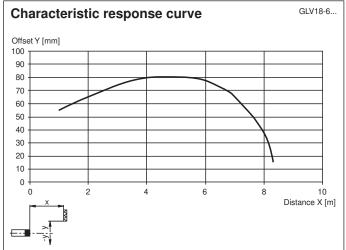
- O = Light on
- = Dark on

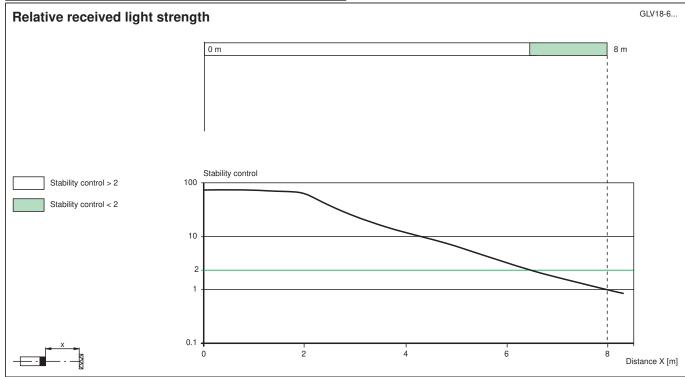
Assembly



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

Characteristic Curve





Accessories

Release date: 2023-03-28 Date of issue: 2023-03-28 Filename: 188556_eng.pdf



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

Accessories BF 18-F Plastic mounting adapter, 18 mm BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of 5 \dots 30 mm