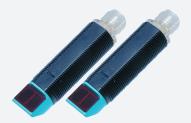
Thru-beam sensor

GA18-S/GK18-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

Thru-beam sensor, M18 threaded housing design, plastic housing, side optical face, 12 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

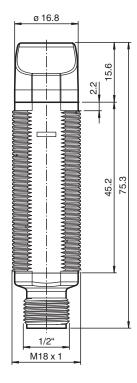
Material handling:

· Presence checks, target sensor, profile checks, trigger sensor

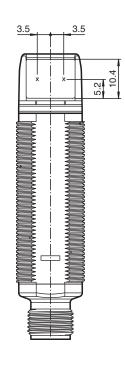
Automatic doors, gates and access systems, elevator:

- Secure detection for automatic door and gate systems
- · Monitoring function in turnstiles
- · Closing edge monitoring in elevators

Dimensions









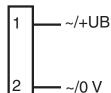
Technical Data

System components

Emitter		GA18-S/166
Receiver		GK18-S/59/161/166
General specifications		
Effective detection range		0 12 m
Threshold detection range		17.5 m
Light source		LED
Light type		modulated visible red light , 640 nm
Diameter of the light spot		approx. 650 mm at 17.5 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		Receiver: LED yellow, lights up when light beam is free, 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 per device
Output		
Switching type		dark-on

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 \leq 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		ABS / PBT		
Optical face		PMMA		
Mass		approx. 10 g per device		

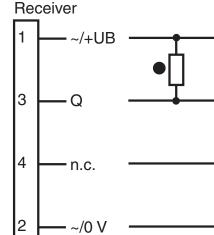
Connection Assignment



Transmitter

3 ____ n.c. 4 ___ n.c.



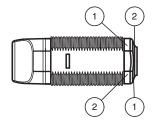


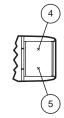


Connection Assignment



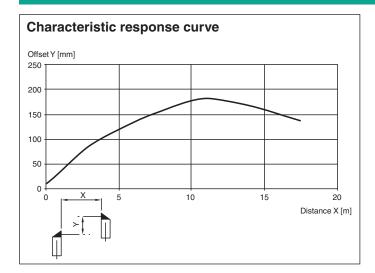
Assembly

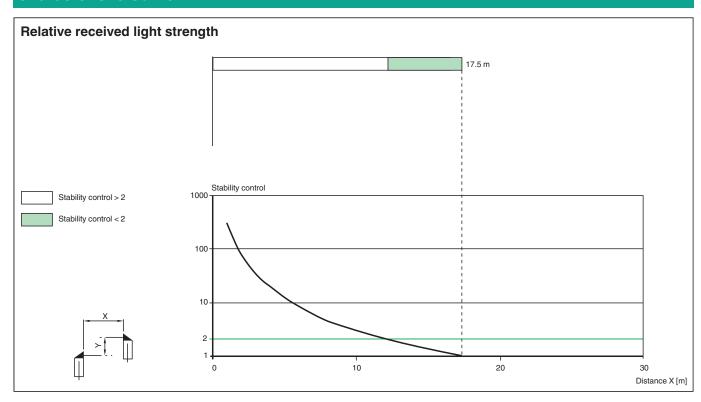




1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

Characteristic Curve





Accessories

0	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
	BF 18-F	Plastic mounting adapter, 18 mm
100	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