



Thru-beam sensor GD18/GV18/25/102/115



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

Thru-beam sensor, M18 threaded housing design, plastic housing, front optical face, 20 m detection range, red light, light on, DC version, NPN output, 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

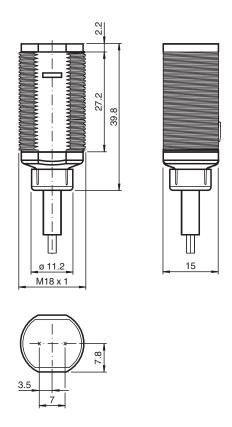
Material handling:

· 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

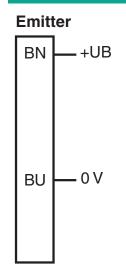


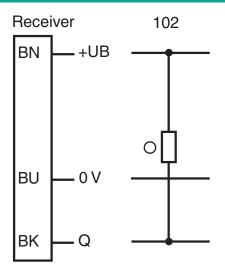
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	GD18/115		
	GV18/25/102/115		
	0 20 m		
	25 m		
	LED		
	modulated visible red light , 640 nm		
	approx. 1300 mm at 25 m		
	approx. 3 °		
	frontal		
	30000 Lux		
	630 a		
	20 a		
	0 %		
	LED green, statically lit Power on		
	Receiver: LED yellow, lights up when light beam is free, flashes when falling short of the operating reserve; OFF when light beam is interrupted		
U _B	10 30 V DC		
	U _B		

Technical Data		
No local constant		00 A
No-load supply current	I ₀	< 20 mA
Output		
Switching type		light-on
Signal output		1 NPN, 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 \leq 50 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure
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
Mass		approx. 75 g per device

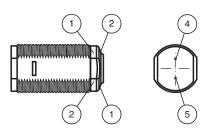
Connection Assignment





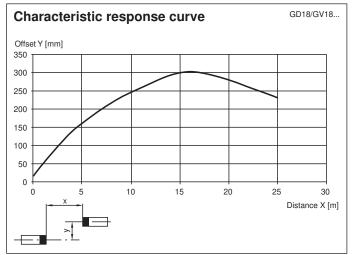
O = Light on = Dark on

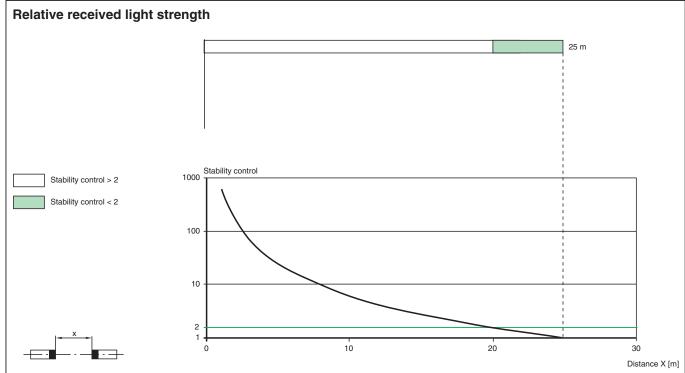
Assembly



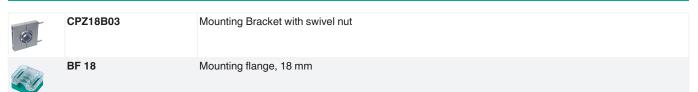
1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

Characteristic Curve





Accessories



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

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