Diffuse mode sensor







- 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
- Universal usage at different power supplies

Diffuse mode sensor, M18 threaded housing design, plastic housing, front optical face, 450 mm detection range, red light, dark on, AC/DC version, NPN-FET 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

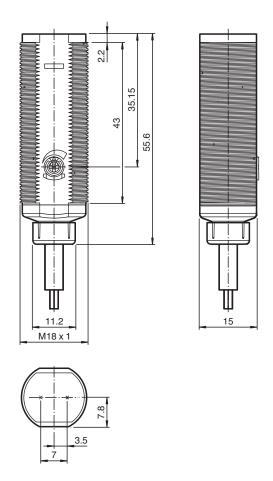
Material handling:

· 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



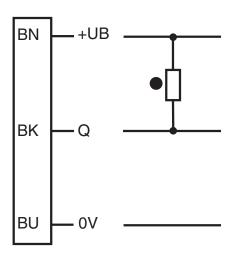
Technical Data

General specifications				
Detection range		50 450 mm adjustable		
Detection range max.		0 450 mm		
Reference target		100 mm x 100 mm Kodak white		
Light source		LED		
Light type		modulated visible red light , 640 nm		
Diameter of the light spot		approx. 15 mm at 400 mm		
Opening angle		approx. 2 °		
Optical face		frontal		
Ambient light limit		30000 Lux ; according to EN 60947-5-2:2007		
Hysteresis	Н	< 15 %		
Accessories provided		Mounting aids		
Indicators/operating means				
Operation indicator		LED green, statically lit Power on		
Function indicator		LED yellow: lights when object is detected; flashes when falling short of the operating reserve $% \left(1\right) =\left(1\right) \left(1\right)$		
Control elements		sensitivity adjustment		
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		

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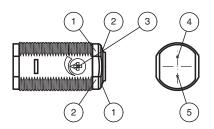
Technical Data				
Signal output		N-channel MOSFET, short circuit protected		
Switching voltage		max. 250 V AC/DC		
Switching current		max. 200 mA		
Voltage drop	U _d	≤ 3.5 V AC/DC		
Switching frequency	f	50 Hz		
Response time		≤ 10 ms		
Conformity				
Product standard		EN 60947-5-2		
Compliance with 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 For overcurrent protection, install a fuse with a rated current of max. 3 A 250 V AC/DC		
CCC approval		Certified by China Compulsory Certification (CCC)		
Approvals		CE		
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		2 m, 3 x 0.34 mm ² , PVC cable		
Material				
Housing		PC-PBT		
Optical face		PMMA		
Mass		approx. 100 g		

Connection Assignment



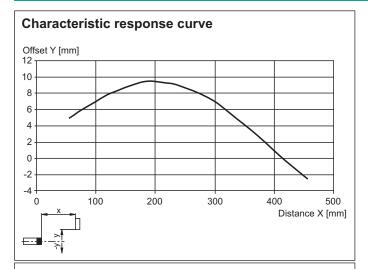


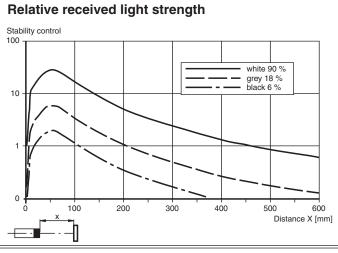
Assembly

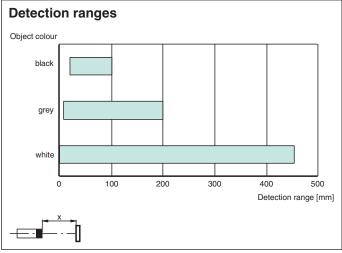


1	Operating display	green			
2	Signal display	yellow			
3	Sensitivity adjustment				
4	Emitter				
5	Receiver				

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				
100	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 30 mm				