

# Diffuse mode sensor GLV18-8-600-IR/115/120





- Efficient Line in a short M18 plastic housing for standard
- 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

applications

Diffuse mode sensor, M18 threaded housing design, plastic housing, front optical face, 600 mm sensing 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

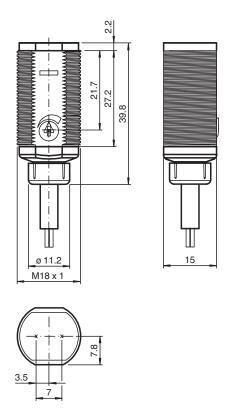
Material handling:

· 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**



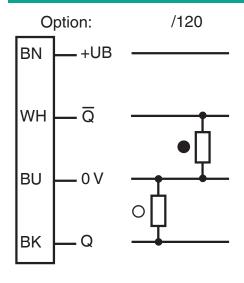
## **Technical Data**

**General specifications** 

Detection range		50 600 mm adjustable	
Detection range max.		0 600 mm	
Reference target		100 mm x 100 mm Kodak white	
Light source		LED	
Light type		modulated infrared light , 850 nm	
Diameter of the light spot		approx. 60 mm at 600 mm	
Opening angle		approx. 6 °	
Optical face		frontal	
Ambient light limit		30000 Lux	
Hysteresis	Н	< 15 %	
Functional safety related parameters			
MTTF <sub>d</sub>		920 a	
Mission Time (T <sub>M</sub> )		20 a	
Diagnostic Coverage (DC)		0 %	
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	
Control elements		sensitivity adjustment	
Electrical specifications			
Operating voltage	U <sub>B</sub>	10 30 V DC	
No-load supply current	$I_0$	< 20 mA	
Output			

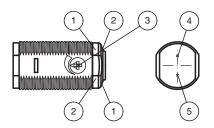
Technical Data				
Switching type		light/dark on		
Signal output		2 PNP, complementary, short-circuit protected, open collectors		
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA		
Voltage drop	$U_d$	≤ 1.5 V DC		
Switching frequency	f	500 Hz		
Response time		≤1 ms		
Conformity				
Product 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**



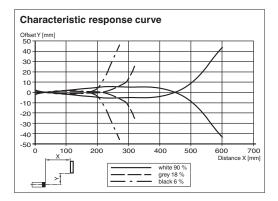
O = Light on ● = Dark on

### **Assembly**



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

### **Characteristic Curve**



#### **Accessories**

0	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
54	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