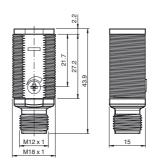


Dimensions





Model Number

GLV18-8-200/73/120

Diffuse mode sensor with 4-pin, M12 x 1 plastic connector

Features

- Efficient Line in a short M18 plastic ٠ housing for standard applications
- 4 LEDs indicator for 360° visibility
- Optimized potentiometer design for a ٠ clear control button layout in the application
- Version with front optical face ٠
- DC voltage version ٠

Product information

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 overengineering. The mounting set included in the scope of delivery and the optimized potentiometer design ensure fast assembly and easy configuration.

Q 0 V Q O = Light on

Electrical connection

+UB

/120

Option:

2

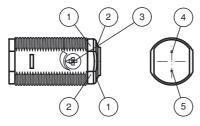
3

4





Indicators/operating means



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

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Technical data			ŀ
General specifications			
Detection range		50 200 mm adjustable	
Detection range max.		0 200 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 200 mm	
Angle of divergence		approx. 4 °	
Optical face		frontal	
Ambient light limit		30000 Lux	
Hysteresis	Н	< 15 %	
Functional safety related par	ameters		
MTTF _d		920 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Operating display		LED green, statically lit Power on	
Function display		LED yellow: lights when object is detected ; flashes when falling	
		short of the stability control	
Controls		sensitivity adjustment	
Electrical specifications			
Operating voltage	UB	10 30 V DC	
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	
Ambient conditions			
Ambient temperature		-25 60 °C (-13 140 °F)	
•		-40 70 °C (-40 158 °F)	
Storage temperature		-40 70 C (-40 156 F)	
Mechanical specifications		12.02	
Protection degree		IP67	
Connection		connector M12 x 1, 4-pin	
Material			
Housing		PC	
Optical face		РММА	
Connector		plastic	
Mass		approx. 10 g	
Compliance with standards a	and direct	-	
ves			
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
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, Class 2 Power Source	
CCC approval		Products with a maximum operating voltage of ≤36 V do not	
200 app.0.0		bear a CCC marking because they do not require approval.	

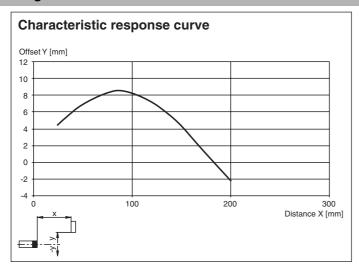
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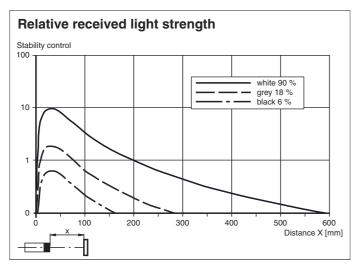
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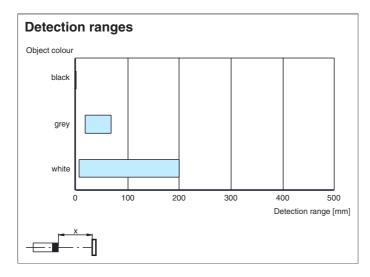
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Curves/Diagrams







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