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Model Number

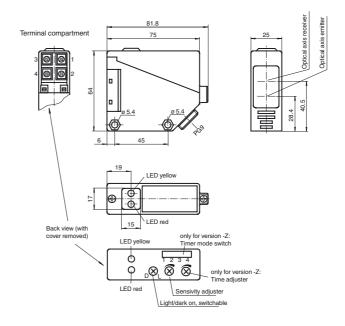
RL39-8-800/30/40a/116/126a

Diffuse mode sensor with terminal compartment

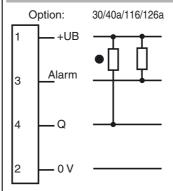
Features

- Infrared light
- Light/dark ON, switchable
- Protection degree IP67

Dimensions



Electrical connection

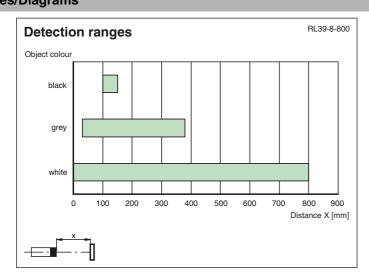


- O = Light on
- = Dark on

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General specifications		
Detection range		0 800 mm
Adjustment range		65 800 mm
Reference target		standard white 200 mm x 200 mm
Light source		IRED
Light type		modulated infrared light
Approvals		CE
Ambient light limit		10000 Lux
Indicators/operating means		
Function display		LED yellow: switching state LED red: pre-fault indication
Controls		Detection range adjuster, light/dark switch
Electrical specifications		
Operating voltage	U _B	10 30 V DC
Ripple		10 %
No-load supply current	I ₀	≤ 35 mA
Time delay before availability	t _v	≤ 50 ms
Output		
Output of the pre-fault indication		1 NPN, active when falling short of the stability control
Switching type		light/dark on
Signal output		1 NPN output, short-circuit protected, reverse polarity proted, open collector
Switching voltage		max. 30 V DC
Switching current		max. 200 mA
Voltage drop	U_d	≤ 3 V
Switching frequency	f	≤ 300 Hz
Response time		≤ 1.5 ms
Standard conformity		
Standards		EN 60947-5-2
Ambient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Storage temperature		-40 55 °C (-40 131 °F)
Mechanical specifications		
Protection degree		IP67
Connection		terminal compartment PG9, ≤ 2.5 mm ²
Material		
Housing		PBT
Optical face		PMMA
Mass		100 g
Approvals and certificates		
Approvais and certificates		

Curves/Diagrams



Additional Information

Conventional use:

The reflex light scanner contains the emitter and receiver in a single housing. The light from transmitter is beamed back from the recorded object is evaluated by the receiver. The detection range depend on the object colour. With dark or very small objects the detection range reduces.

Mounting instructions:

The sensor can be fastened over the through-holes directly or with the included mounting bracket.

The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Instructions for adjustment:

Adjust the sensor on the background. If the yellow LED illuminates, the detection range needs to be reduced with the detection range adjuster, until the yellow LED goes off.

Object detection check:

Position the object into the light beam. Position light spot on object. If the object is detected, the yellow LED illuminated. If it does not light up, further to adjust the detection range with the potentiometer, until the yellow LED lights up.

The red LED flashes if reception deteriorates (e.g. soiled lenses or by maladjustment) and when falling short of the stability control.

lustration:

We recommend that you clean the optical interfaces and check the plug-in connections and screw connections at regular intervals.

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