







Model Number

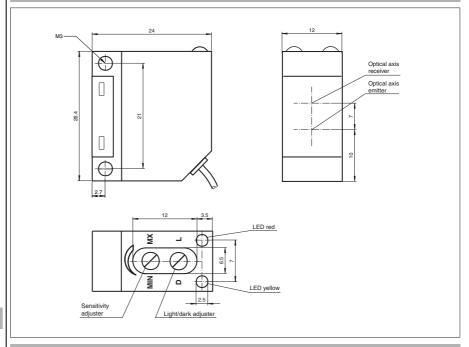
ML5-8-400/32/115

Diffuse mode sensor with fixed cable

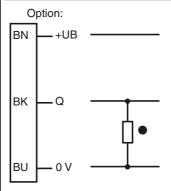
Features

- Miniature design
- Infrared light design
- Light/dark ON, switchable
- Pre-fault indication
- Protection degree IP67
- · Thru-holes for screw mounting

Dimensions



Electrical connection

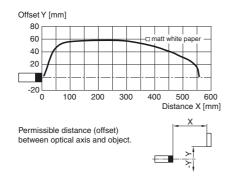


- O = Light on
- = Dark on

Technical data		
General specifications		
Detection range		0 400 mm
Adjustment range		150 400 mm
Reference target		standard white 100 mm X 100 mm
Light source		LED, infrared 950 nm
Light type		modulated infrared light
Approvals		CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)
Ambient light limit		≤ 20000 Lux sun light ≤ 5000 Lux halogen light
Indicators/operating means		
Function display		LED yellow: switching state LED red: pre-fault indication
Controls		Light/Dark switch, sensitivity adjuster
Electrical specifications		
Operating voltage	U _B	10 30 V DC
Ripple		10 %
No-load supply current	I ₀	≤ 30 mA
Output		
Switching type		light/dark on, switchable
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 200 mA
Voltage drop	U _d	≤ 2.5 V
Switching frequency	f	≤ 500 Hz
Response time		1 ms
Standard conformity		
Standards		EN 60947-5-2
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Mechanical specifications		,
Protection degree		IP67 according to EN 60529
Connection		2 m, 3 x 0.14 mm ² , PUR cable
Material		, , , , , , , , , , , , , , , , , , ,
Housing		Polycarbonate
Optical face		PMMA
Mass		approx. 45 g
Approvals and certificates		
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Curves/Diagrams

Characteristic response curve



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 depends on the object colour. With dark or very small objects the detection range reduces.

FPEPPERL+FUCHS

2

Mounting instructions:

The sensor can be fastened over the through-holes directly or with a mounting bracket (not included in scope of supply). 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 to the background. If the yellow LED is on now, 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 is illuminated. If not, 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

Pepperl+Fuchs Group www.pepperl-fuchs.com