



Model Number

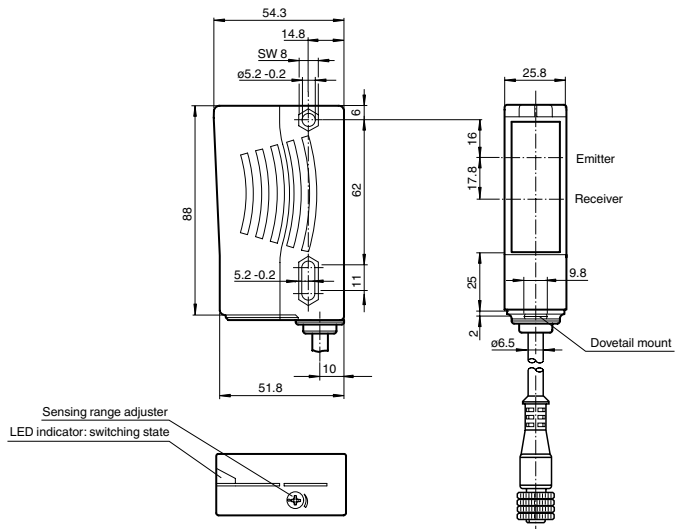
RL29-8-2000/115b/136

Diffuse mode sensor
with 0.2 m fixed cable and 4-pin, M12 connector

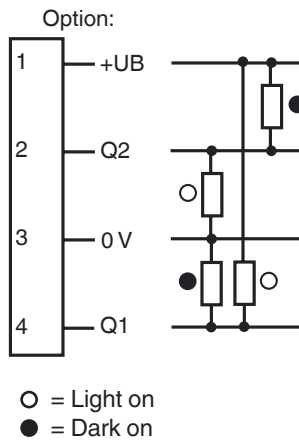
Features

- Highly visible LED
- Good alignability due to red transmission LED
- Powerful push-pull output
- Optimal price/power ratio
- Protection class II

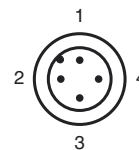
Dimensions



Electrical connection



Pinout



Release date: 2015-02-05 14:16 Date of issue: 2015-02-12 198267_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical data

General specifications

Detection range	20 ... 2000 mm , adjustable
Detection range min.	20 ... 200 mm
Detection range max.	20 ... 2000 mm
Light source	LED
Light type	modulated visible red light , 660 nm
Black/White difference (6 %/90 %)	< 40 %
Diameter of the light spot	approx. 25 mm at a distance of 2000 mm
Angle of divergence	Emitter: 1.2 ° , Receiver: 2 °
Ambient light limit	50000 Lux

Functional safety related parameters

MTTF _d	1982.2 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function indicator	LED yellow: switching state
Control elements	Detection range adjuster

Electrical specifications

Operating voltage	U _B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I ₀	≤ 40 mA
Protection class		2 , rated voltage ≤ 300 V AC with pollution degree 1-2 according to IEC 60664-1

Output

Switching type	light on	
Signal output	2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Switching frequency	f	125 Hz
Response time		4 ms

Ambient conditions

Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-40 ... 75 °C (-40 ... 167 °F)

Mechanical specifications

Degree of protection	IP65
Connection	with 0.2 m fixed cable and 4-pin, M12 connector
Material	
Housing	Plastic ABS
Optical face	plastic
Mass	70 g

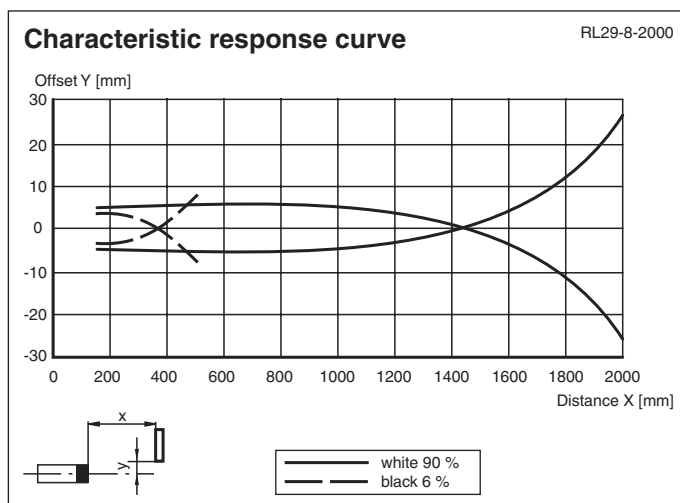
Compliance with standards and directives

Directive conformity	
EMC Directive 2004/108/EC	EN 60947-5-2:2007

Approvals and certificates

CE conformity	yes
UL approval	cULus
CCC approval	CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams



Accessories

OMH-05

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-07

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-21

Mounting bracket

OMH-22

Mounting bracket

OMH-MLV11-K

dove tail mounting clamp

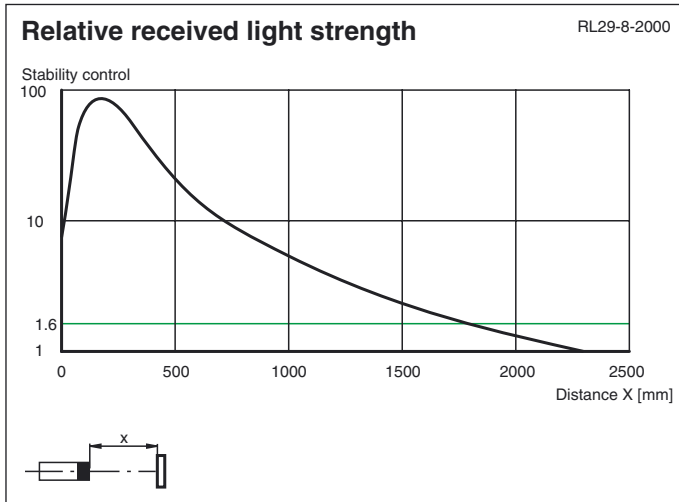
OMH-RLK29-HW

Mounting bracket for rear wall mounting

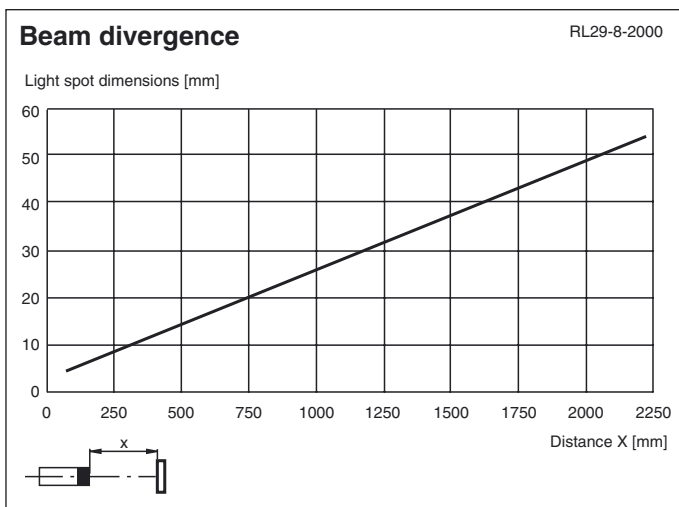
OMH-RL28-C

Weld slag cover model

Other suitable accessories can be found at www.pepperl-fuchs.com



Curves/Diagrams



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