

Model Number

RL29-8-2000/73c/136

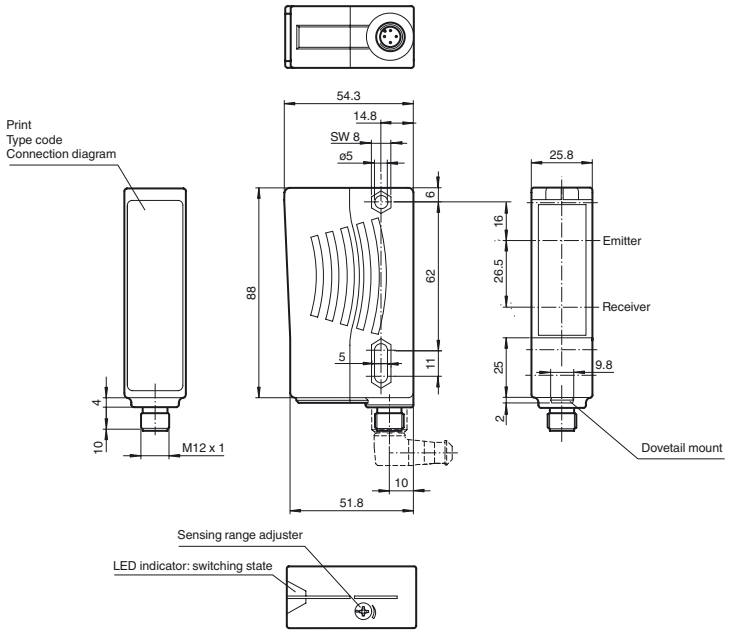
Diffuse mode sensor

with 4-pin, M12 x 1 plastic connector

Features

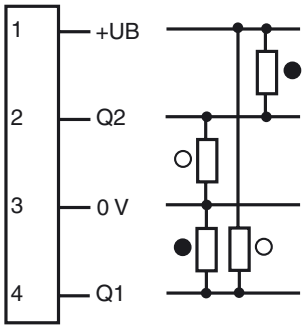
- Highly visible LED
- Good alignability due to red transmission LED
- Powerful push-pull output
- Optimal price/power ratio
- Protection class II

Dimensions



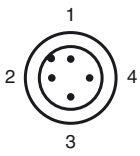
Electrical connection

Option:



○ = Light on
● = Dark on

Pinout

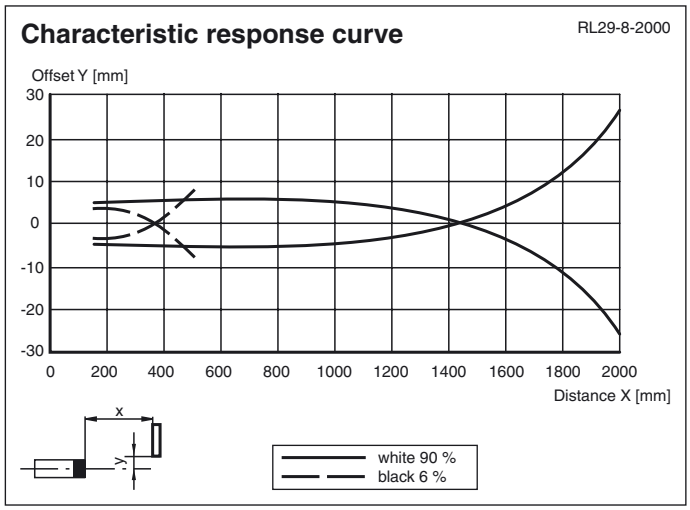


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Technical data

General specifications		
Detection range		20 ... 2000 mm , adjustable
Detection range min.		20 ... 200 mm
Detection range max.		20 ... 2000 mm
Light source		LED 660 nm
Light type		modulated visible red light
Black/White difference (6 %/90 %)		< 40 %
Approvals		CE, cULus
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 display		LED yellow: switching state
Controls		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		
Protection degree		IP65
Connection		Plastic connector M12 x 1, 4-pin
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		
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



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

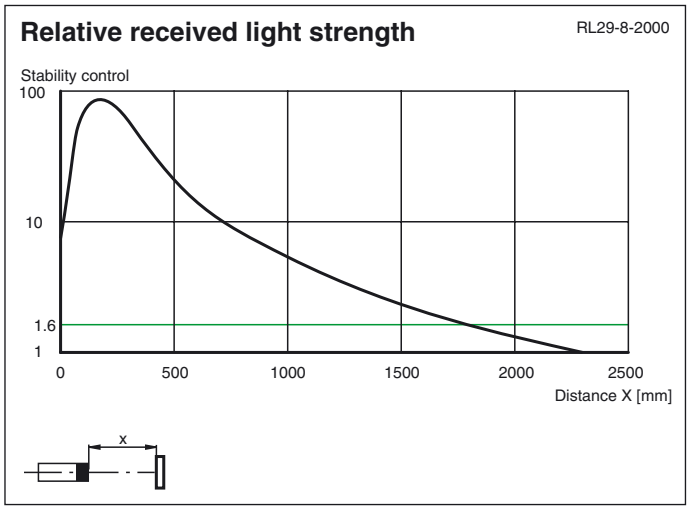
V1-G-2M-PUR
Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR
Cable socket, M12, 4-pin, PUR cable

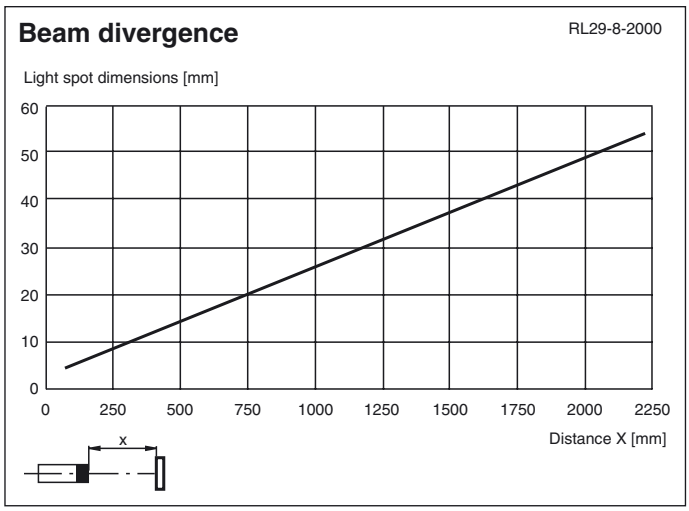
Other suitable accessories can be found at www.pepperl-fuchs.com

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Curves/Diagrams



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