



Model Number

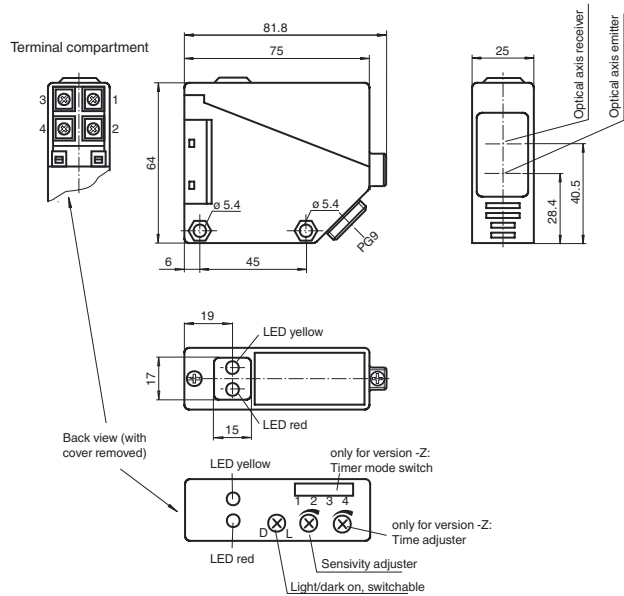
RLK39-54-5594/31/40a/116

Retroreflective sensor
with terminal compartment

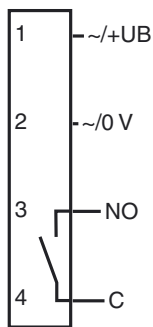
Features

- Glare protected with polarization filter
- Visible red light
- Light/dark ON, switchable
- Degree of protection IP67

Dimensions



Electrical connection



Release date: 2014-04-03 12:00 Date of issue: 2014-04-09 812306_eng.xml

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

Pepperl+Fuchs Group
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Technical data**General specifications**

Effective detection range	0 ... 7 m
Reflector distance	0.1 ... 7 m
Threshold detection range	9 m
Reference target	H85 reflector
Light source	LED red
Light type	modulated visible red light
Polarization filter	yes
Ambient light limit	10000 Lux

Functional safety related parameters

MTTF _d	1002 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function indicator	LED yellow: switching state LED red: pre-fault indication
Control elements	sensitivity adjustment
Control elements	Light/Dark switch

Electrical specifications

Operating voltage	U _B	12 ... 240 V DC 24 ... 240 V AC (50 ... 60 Hz)
Ripple		10 %
No-load supply current	I ₀	≤ 35 mA
Power consumption	P ₀	≤ 3 VA
Time delay before availability	t _v	≤ 50 ms

Output

Switching type	light/dark on	
Signal output	1 relay output	
Switching voltage	≤ 240 V AC	
Switching current	max. 3 A	
Switching frequency	f	≤ 25 Hz
Response time		≤ 20 ms

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Degree of protection	IP67
Connection	terminal compartment PG9, ≤ 2.5 mm ²
Material	
Housing	PBT
Optical face	PMMA
Mass	110 g

Compliance with standards and directives

Directive conformity	EMC Directive 2004/108/EC
Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

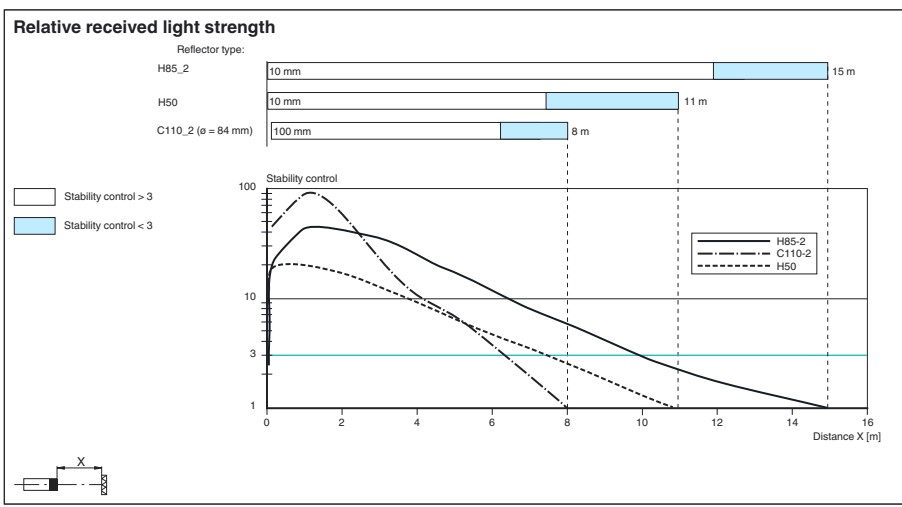
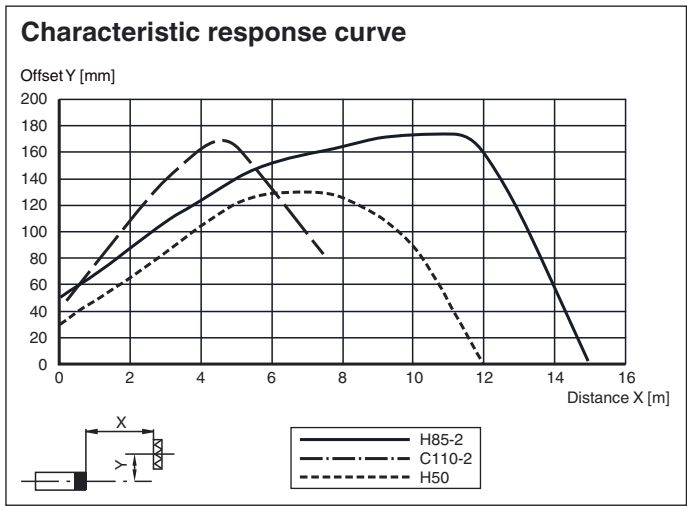
CCC approval	Certified by China Compulsory Certification (CCC)
Approvals	CE

Accessories**OMH-RL39**

Mounting bracket for RL39 series Sensors

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

Curves/Diagrams



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