



**Model Number**

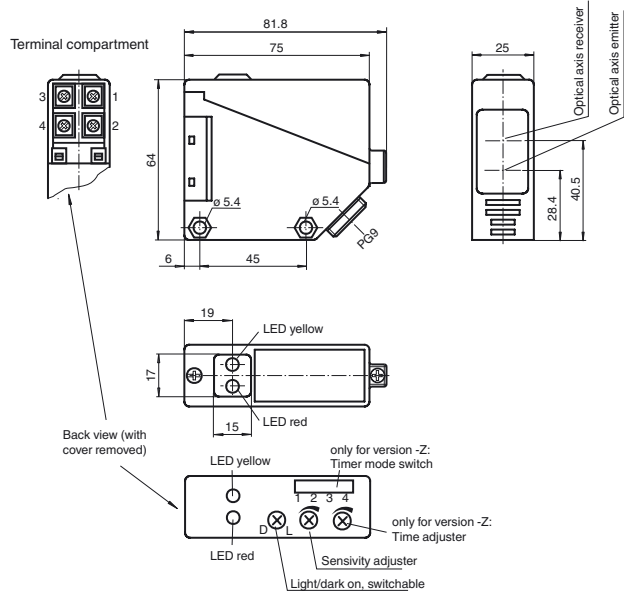
**RLK39-8-800-Z/31/40a/116**

Diffuse mode sensor  
with terminal compartment

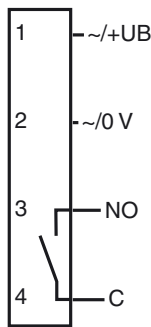
**Features**

- Infrared light
- Light/dark ON, switchable
- Timer function
- Degree of protection IP67

**Dimensions**



**Electrical connection**



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

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**Technical data****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
Ambient light limit	10000 Lux

**Functional safety related parameters**

MTTF <sub>d</sub>	803 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

**Indicators/operating means**

Function indicator	LED yellow: switching state LED red: pre-fault indication
Control elements	Sensitivity adjuster, light/dark switch
Control elements	switch for timer function

**Electrical specifications**

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

**Output**

Switching type	light/dark on	
Signal output	1 relay output	
Switching voltage	max. 240 V AC ; 150 V DC	
Switching current	max. 3 A	
Switching power	DC: max. 90 W AC: max. 750 VA	
Switching frequency	f	≤ 25 Hz
Response time		≤ 20 ms
Timer function		On-/off-delay or pulse extension on choice

**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 <sup>2</sup>
Material	
Housing	PBT
Optical face	PMMA
Mass	110 g

**Compliance with standards and directives**

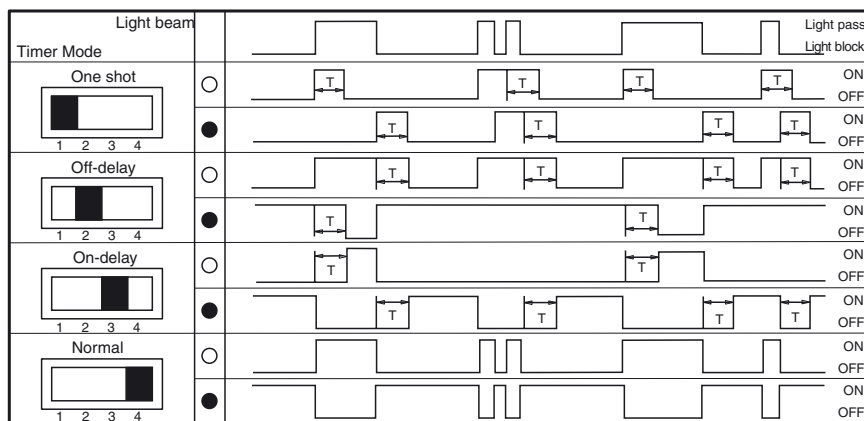
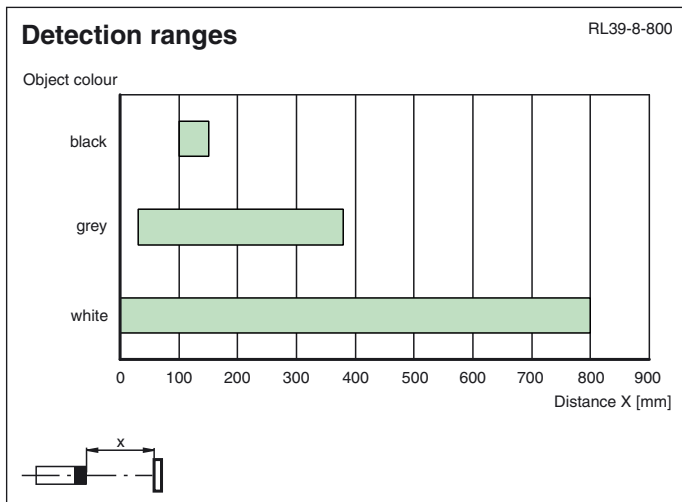
Directive conformity	EMC Directive 2004/108/EC
Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007

**Approvals and certificates**

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

**Accessories****OMH-RL39**

Mounting bracket for RL39 series Sensors



○ Denotes Light - ON T= 0.1 .... 10 sec.  
 ● Denotes Dark - ON