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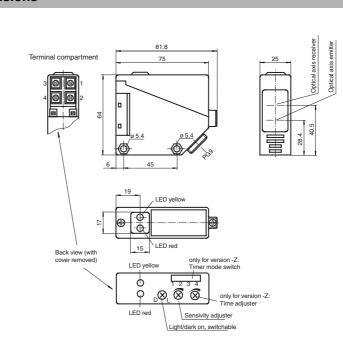
Model Number

RLK39-8-2000-Z/31/40a/116

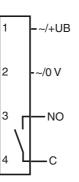
Diffuse mode sensor with terminal compartment

Features

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



Electrical connection



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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Technical data			
General specifications			
Detection range		0 2000 mm	
Adjustment range		200 2000 mm	
Reference target		standard white 200 mm x 200 mm	
Light source		IRED	
Light type		modulated infrared light	
Ambient light limit		IEC / EN 60947-5-2 , 10000 Lux	
•	toro	1207 EN 00347-3-2, 10000 Eux	
Functional safety related parame	lers	202 a	
MTTF _d		803 a 20 a	
Mission Time (T _M)			
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Function indicator		LED yellow: switching state	
		LED red: pre-fault indication	
Control elements		Sensing range adjuster, light-on/dark-on changeover switch	
Control elements		switch for timer function	
Electrical specifications			
Operating voltage	UB	12240 V DC	
		24 240 V AC (50 60 Hz)	
Ripple		10 %	
No-load supply current	I ₀	≤ 50 mA	
Protection class		rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 output circuit has basic insulation to control circuit according to IEC/EN 61140	
Power consumption	P ₀	≤ 3 VA	
Time delay before availability	t _v	≤ 300 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	
Ambient conditions			
Ambient temperature		-25 55 °C (-13 131 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Housing width		25 mm	
Housing height		64 mm	
Housing depth		75 mm	
Degree of protection		IP67	
Connection		terminal compartment PG9, \leq 2.5 mm ²	
Material			
Housing		PBT	
Optical face		РММА	
Mass		approx. 110 g	
General information			
Scope of delivery		Mounting aid	
Compliance with standards and	directi-		
Ves			
Directive conformity		EMC Directive 2004/108/EC	
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012	
Standard conformity			
Product standard		EN 60947-5-2:2007	
. roduct standard		IEC 60947-5-2:2007	
Approvals and certificates			
EAC conformity		TR CU 020/2011	
		TR CU 004/2011	
Protection class		II, rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 overvoltage category II Caution! The protection class 2 is only valid when the terminal compartment is closed.	
Protection class			
		ment is closed.	
Protection class CCC approval Approvals			

Accessories

OMH-RL39 Mounting bracket for RL39 series Sensors

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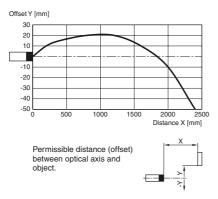
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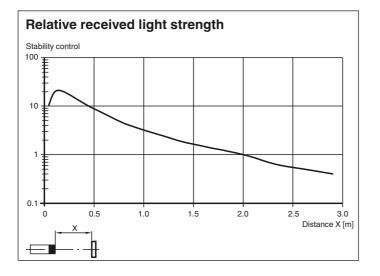
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Curves/Diagrams

Characteristic response curve





Light bear Timer Mode	n				t pass t block
One shot	0		T	₹_ →	ON OFF
	•		T	T T	ON OFF
Off-delay	0		T		ON OFF
	•			T	ON OFF
On-delay	0	⊲ ⊳ T		₹	ON OFF
	•		₹ ₽ Ţ		ON OFF
Normal	0				ON OFF
	•				ON OFF

O Denotes Light - ON T= 0.1 10 sec.

Denotes Dark - ON

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