

RL36-8-2000-Ex/40b/116

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Reflection light scanner, NAMUR

RL36-8-2000-Ex/40b/116

with terminal compartment



Ex-Devices/
NAMUR

- ◆ Recording range up to 2 m
- ◆ Intrinsically safe, EEx ia IIC T6
- ◆ Light/dark ON, programmable
- ◆ Adjustable sensitivity
- ◆ Resistant against noise
- ◆ Protection degree IP64

For suitable cable sockets, reflectors and mounting aids refer to chapter "accessories".

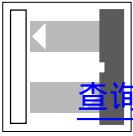
Date of issue
10/15/01

Ordering code		RL36-8-2000-Ex/40b/116
Sensing range	0 ... 2000 mm	◆
Reference target	Standard white 200 mm x 200 mm	◆
Adjustment range	350 ... 2000 mm	◆
Operating mode	Light/dark ON, programmable	◆
Light type	IR-light 860 nm	◆
Lifetime	Light source: 100000 h	◆
Ambient light limit	≤ 10000 Lux sun light	◆
	≤ 7500 Lux halogen light	
Temperature influence	≤ 5 mm/K	◆
Standard conformity	DIN EN 60947-5-6/EN 60947-5-2	◆
	EN 50020/EN 50014	
Approvals	CE	◆
Function display	LED yellow: switching state	◆
Controls	sensitivity adjuster	◆
Operating voltage	6 ... 20 V DC (R _i approx. 0 Ohm), ripple 5 % _{SS}	◆
Nominal voltage	8 V DC (R _i approx. 1 kOhm)	◆
Time delay before availability	20 ms	◆
Signal output	1 NAMUR output NC/NO programmable	◆
Current consumption		
Reference target detected	connection 1, 2: ≤ 1 mA	◆
	connection 1, 4: ≥ 2.2 mA	
Reference target not detected	connection 1, 2: ≥ 2.2 mA	◆
	connection 1, 4: ≤ 1 mA	
Switching frequency	≤ 100 Hz	◆
Switch-on delay	5 ms	◆
Range hysteresis	≤ 10 %	◆
Repeat accuracy	≤ 5 %	◆
Ambient temperature	-25 ... +70 °C	◆
Storage temperature	-40 ... +80 °C	◆
Protection degree	IP64 according to EN 60529	◆
Connection type	Terminal compartment Pg9, ≤ 2.5 mm ²	◆
Housing	PMMA	◆
Light exit	PMMA	◆
Mass	200 g	◆

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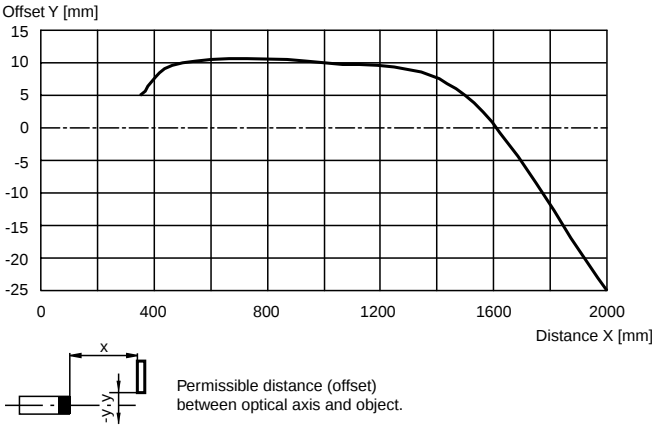
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Diagrams

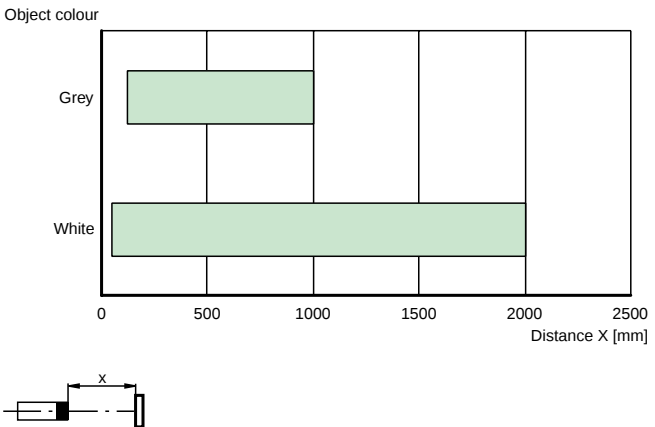
Characteristic response curve

RL36-8



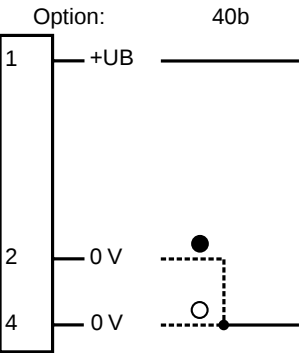
Detection ranges

RL36-8-Ex

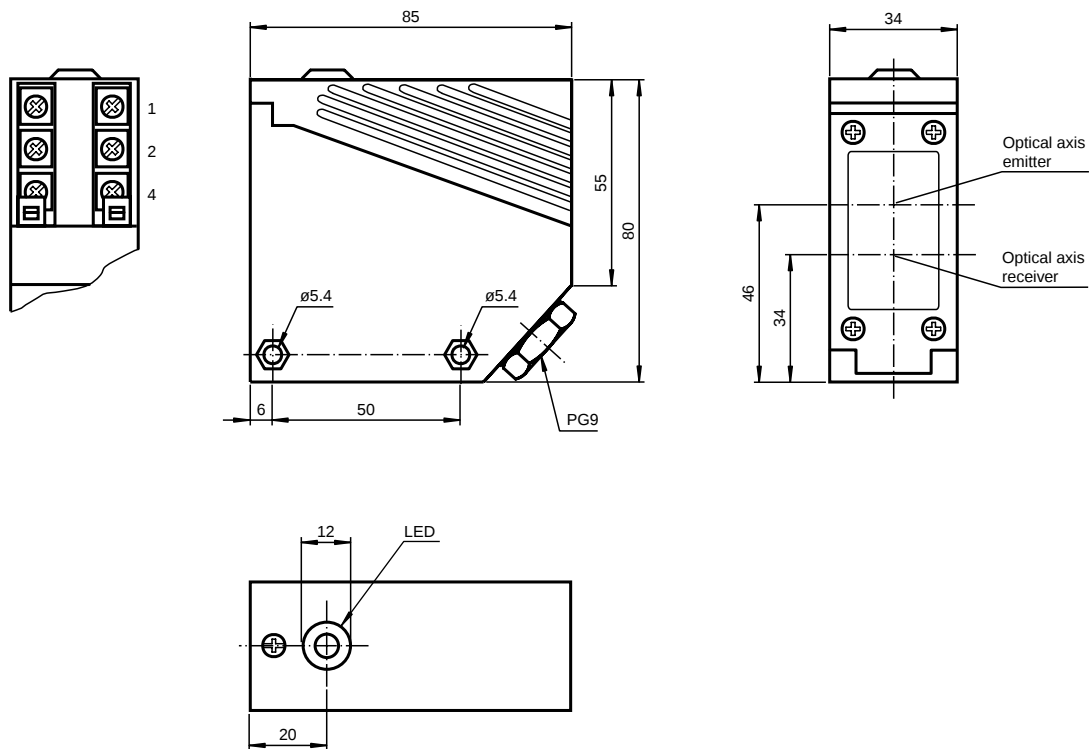


Electrical Connection

Ex-Devices/
NAMUR



○ = Light ON, ● = Dark ON



Instructions for the use in hazardous areas

Type-examination certificate	PTB No. Ex-97.D.2264
Maximum values	
Effective internal capacity C_i	≤ 60 nF
Effective internal inductivity L_i	negligible
Voltage U_i	12.7 V
Current I_i	53.23 mA
Power P_i	169 mW
Ambient temperature	-25 °C ... +70 °C (248 K ... 343 K)
Marking	EEx ia IIC T6

Notes

In the case of an error, the sensor should also be regarded as active.
 For the maximum values, please refer to the certificate of conformity.