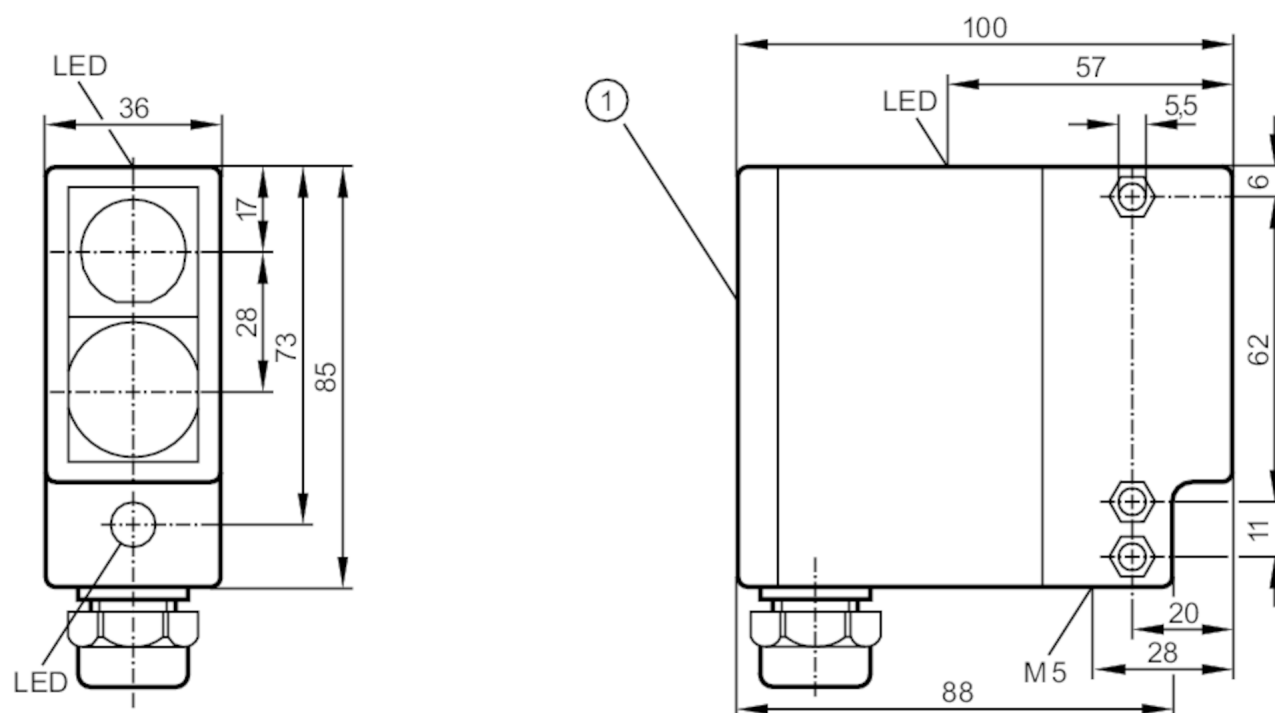




Diffuse reflection sensor with background suppression

OAH-FKOA/T

Article no longer available - archive entry



- 1 selection switch and potentiometer under cover
receiver in lower lens
transmitter in upper lens

Product characteristics

Type of light	infrared light
Housing	rectangular

Application

Special feature	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC/DC
Max. power consumption	[VA]	2
Reverse polarity protection		no
Type of light		infrared light
Wave length	[nm]	950

Outputs

Electrical design		relay
Output function		light-on/dark-on mode; (parameterisable)
Permanent current rating of switching output AC	[mA]	2500; (max. 150 VA)
Permanent current rating of switching output DC	[mA]	2500; (max. 150 VA)
Short-time current rating of switching output	[mA]	2500; (/ max. 150 VA)



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Switching frequency AC	[Hz]	10
Switching frequency DC	[Hz]	10
Short-circuit proof		no
Overload protection		no
Time function	[s]	0.5...12

Detection zone

Range	[mm]	200...800; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter	[mm]	15
Light spot dimensions refer to		at maximum range
Background suppression available		yes

Operating conditions

Ambient temperature	[°C]	-25...55
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing		rectangular
Dimensions	[mm]	85 x 36 x 100
Materials		PPO modified
Lens material		PMMA

Displays / operating elements

Display	switching status	1 x LED, red
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Accessories

Items supplied	Angle bracket: 1, E20560
	screwdrivers

Remarks

Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.
Pack quantity	1 pcs.



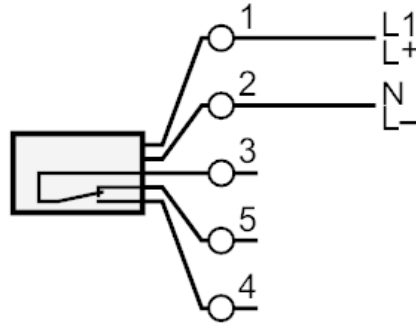
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Electrical connection

terminals: ...1.5 mm²; Cable gland: M16 X 1.5

Connection



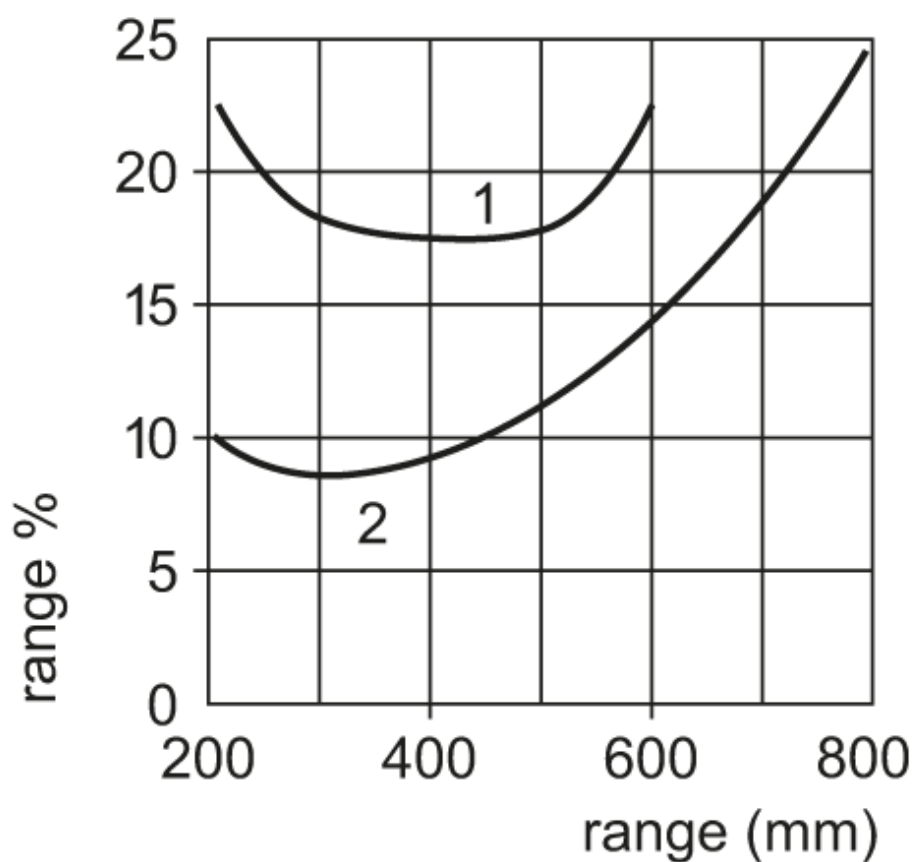


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Diagrams and graphs

accuracy graph



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , background white (90 % remission)

2 = object grey (18 % remission) , background white (90 % remission)

3 = object white (90 % remission) , background white (90 % remission)

Note : range % = setting in % of the range