



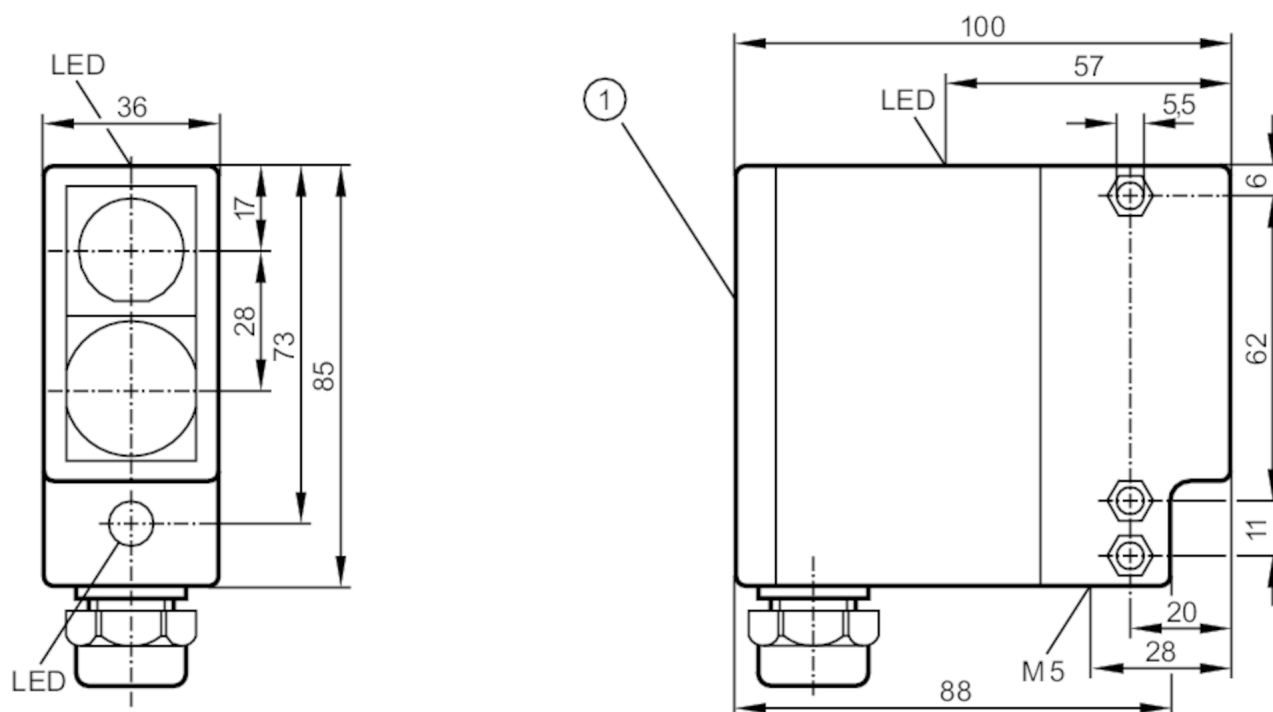
Diffuse reflection sensor with background suppression

OA5H-CNKG/T

Article no longer available - archive entry

Alternative articles: O5H201 + E11861

When selecting an alternative article and accessories please note that technical data may differ!



- 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

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 50
Reverse polarity protection		yes
Type of light		infrared light
Wave length	[nm]	950

Outputs

Electrical design		NPN
Output function		complementary
Max. voltage drop switching output DC	[V]	1.5
Permanent current rating of switching output DC	[mA]	200



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Switching frequency DC	[Hz]	250	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Time function	[s]	0,015...0,3 / 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		Polycarbonat	
Lens material		PMMA	
Displays / operating elements			
Display	switching status		1 x LED, red
Operating elements			on-delay or off-delay selectable via slide switch
Accessories			
Items supplied	Angle bracket: 1, E20560		
	screwdrivers		
Remarks			
Pack quantity	1 pcs.		



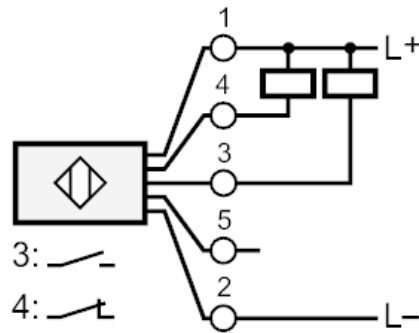
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Electrical connection

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

Connection



5

test

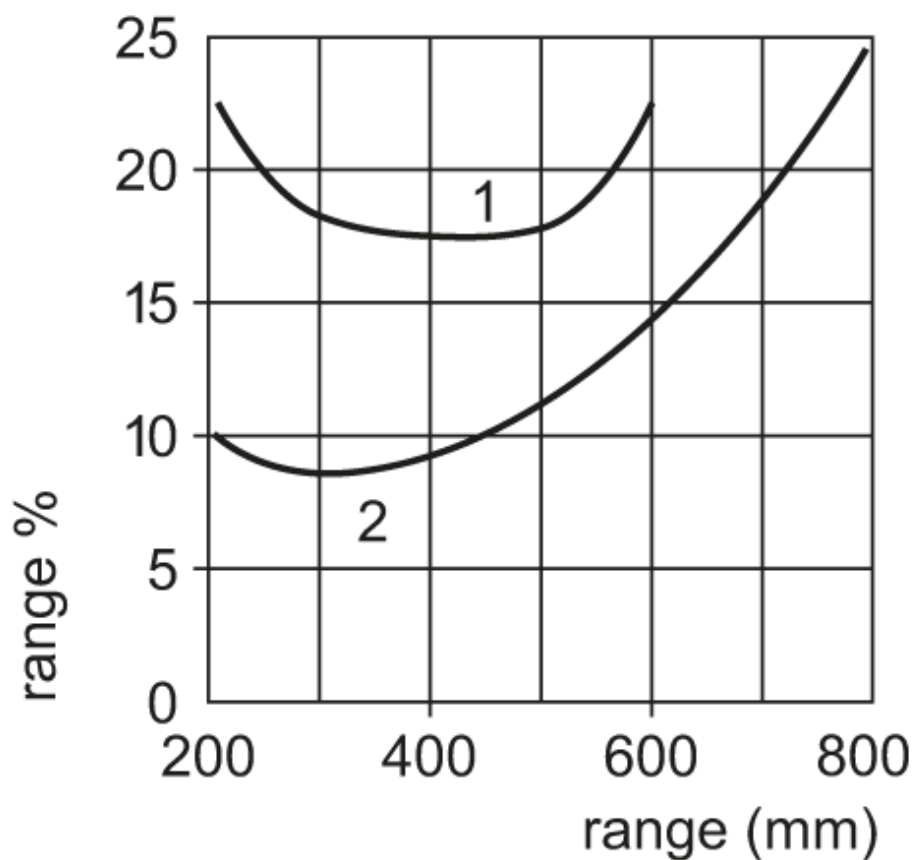


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Diagrams and graphs

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