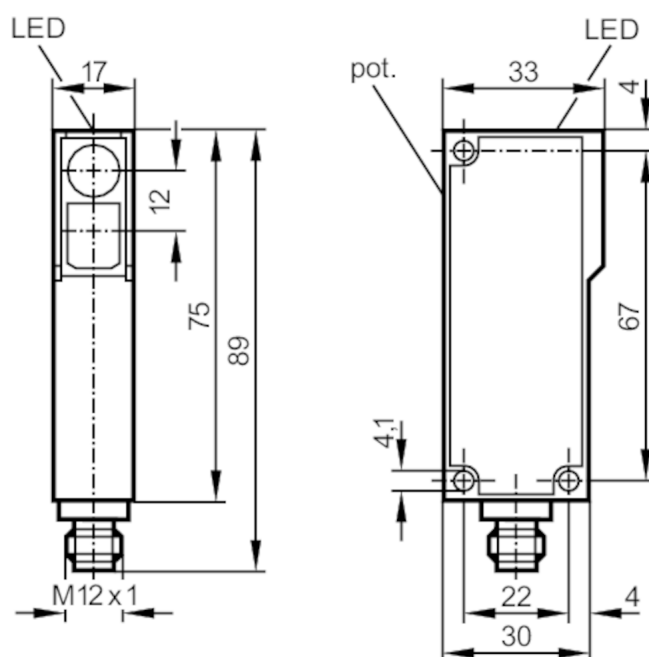


Diffuse reflection sensor with background suppression

OTH-CPKG/US-100-DPX

Article no longer available - archive entry



receiver in lower lens
transmitter in upper lens

Product characteristics

Type of light	infrared light
Housing	rectangular
Dimensions [mm]	75 x 17 x 33

Application

Special feature	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	25; ((24 V))
Protection class	II
Reverse polarity protection	yes
Type of light	infrared light
Wave length [nm]	950



Diffuse reflection sensor with background suppression

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Outputs		
Electrical design	PNP	
Output function	complementary	
Max. voltage drop switching output DC [V]	2.9	
Permanent current rating of switching output DC [mA]	100	
Switching frequency DC [Hz]	700	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Detection zone		
Range [mm]	50...700; (white paper 200 x 200 mm)	
Range adjustable	yes	
Max. light spot diameter [mm]	35	
Light spot dimensions refer to	at maximum range	
Background suppression available	yes	
Operating conditions		
Ambient temperature [°C]	-40...60	
Protection	IP 65	
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
Mechanical data		
Housing	rectangular	
Dimensions [mm]	75 x 17 x 33	
Materials	Polycarbonat	
Lens material	PMMA	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	Angle bracket: 1 x, E20461 screwdrivers	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		

OT5203

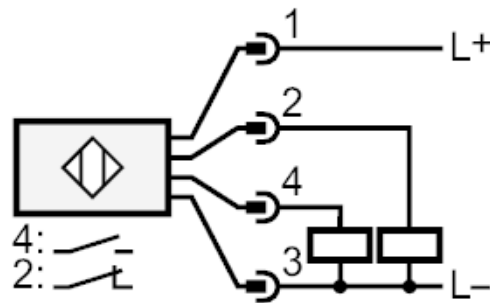


Diffuse reflection sensor with background suppression

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Connection



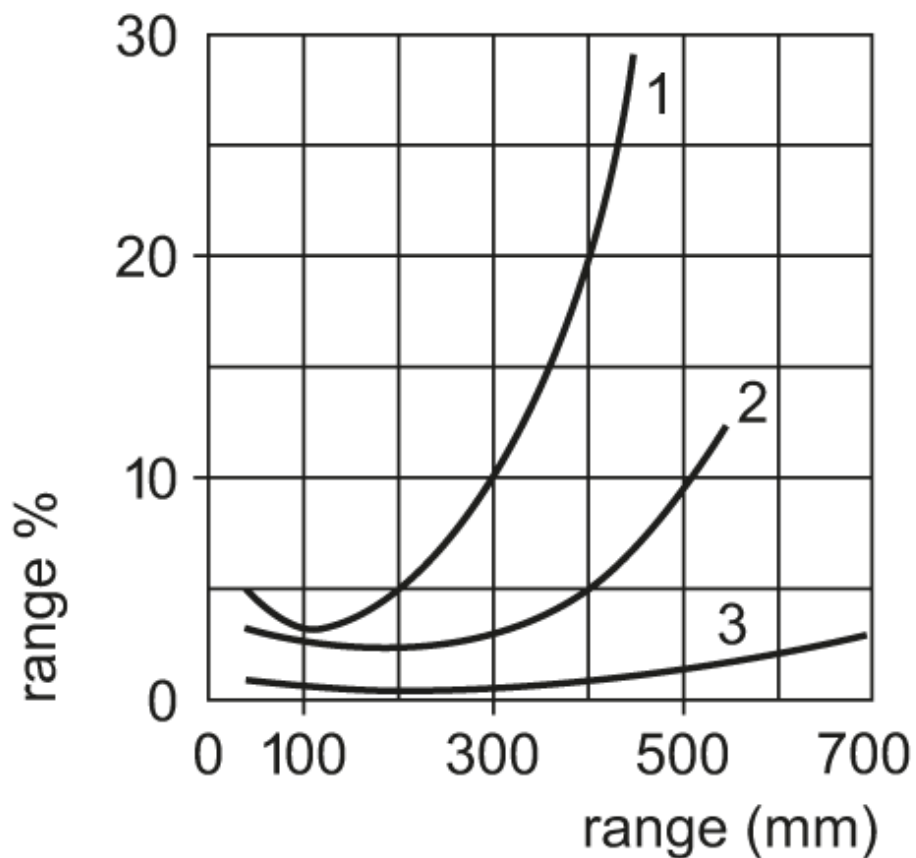


Diffuse reflection sensor with background suppression

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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

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