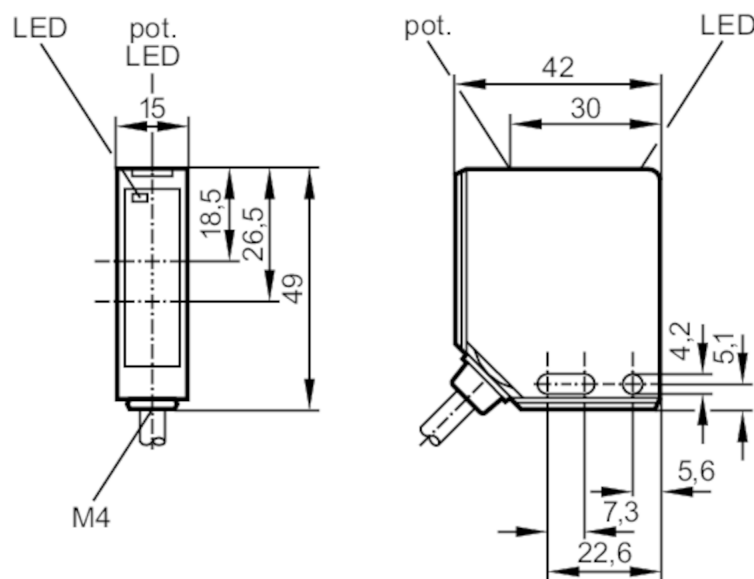




Diffuse reflection sensors with background suppression

OCH-CPKG

Article no longer available - archive entry



Receiver in upper lens
transmitter in lower lens

Product characteristics

Type of light	red light
Housing	rectangular

Application

System	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	40; ((24 V))
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	660

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]	1500
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

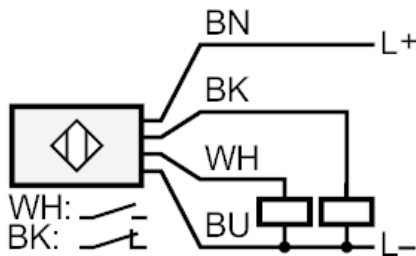
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Monitoring range		
Range	[mm]	20...250; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter	[mm]	12.5
Light spot dimensions refer to		at maximum range
Background suppression available		yes
Operating conditions		
Ambient temperature	[°C]	-40...60
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
Mechanical data		
Housing		rectangular
Dimensions	[mm]	49 x 15 x 42
Material		diecast zinc
Lens material		PMMA
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Function	1 x LED, yellow flashing
Accessories		
Items supplied		screwdrivers
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PVC; 4 x 0.5 mm²		
Connection		



	Core colors :
BN =	brown
BU =	blue
BK =	black
WH =	white

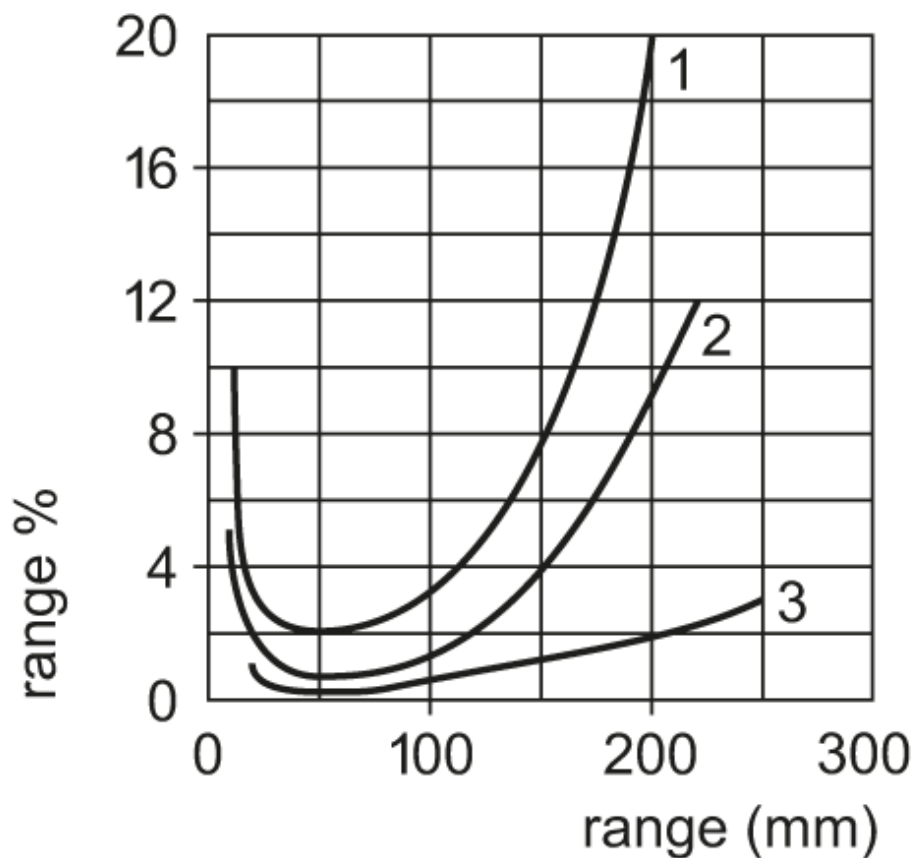


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Diagrams and graphs

Background suppression chart



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