

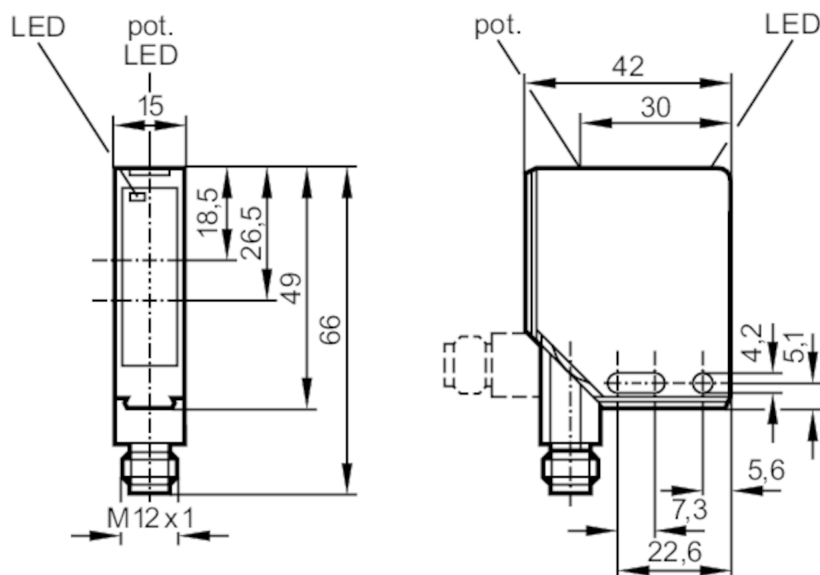
Diffuse reflection sensor with background suppression

OCH-CPKG/US-100

Article no longer available - archive entry

Alternative articles: O5H500

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



receiver in upper lens
transmitter in lower 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]	< 40
Protection class		II
Reverse polarity protection		yes
Type of light		infrared light
Wave length	[nm]	880

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



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Type of short-circuit protection	pulsed	
Overload protection	yes	
Detection zone		
Range [mm]	20...250	
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	
Materials	diecast zinc	
Lens material	PMMA	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	function	1 x LED, yellow flashing
Аксессуары		
Items supplied	screwdrivers	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; coding: A		
		

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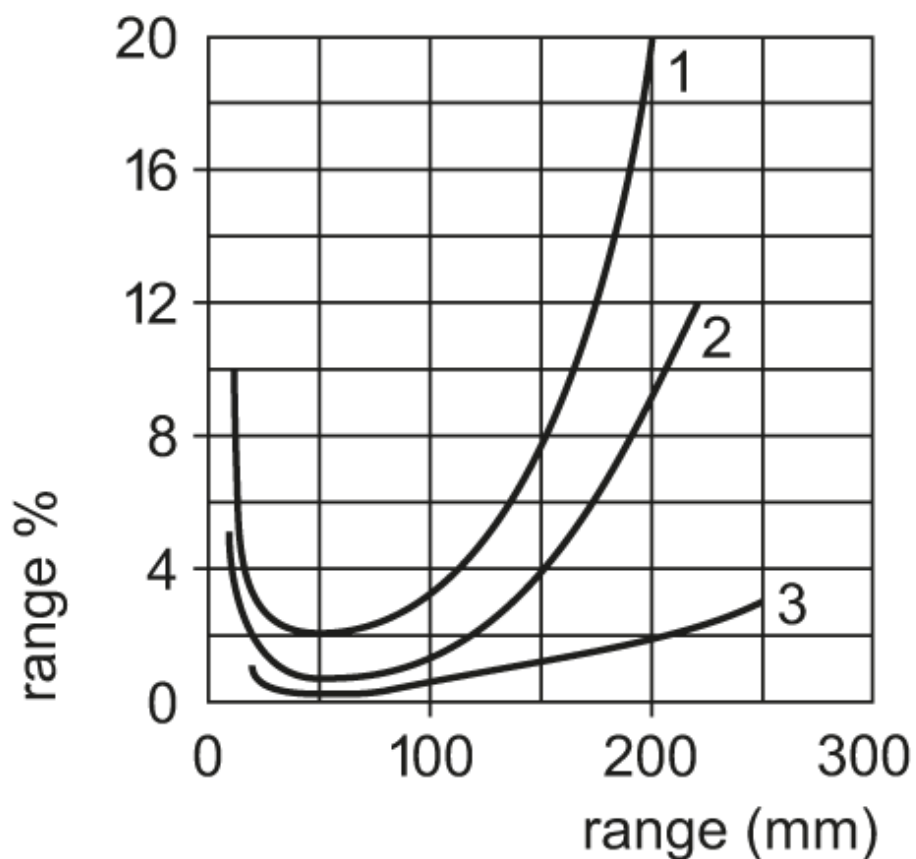
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Connection



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