OC5227

Diffuse reflection sensor with background suppression

OCH-ASI/US-100

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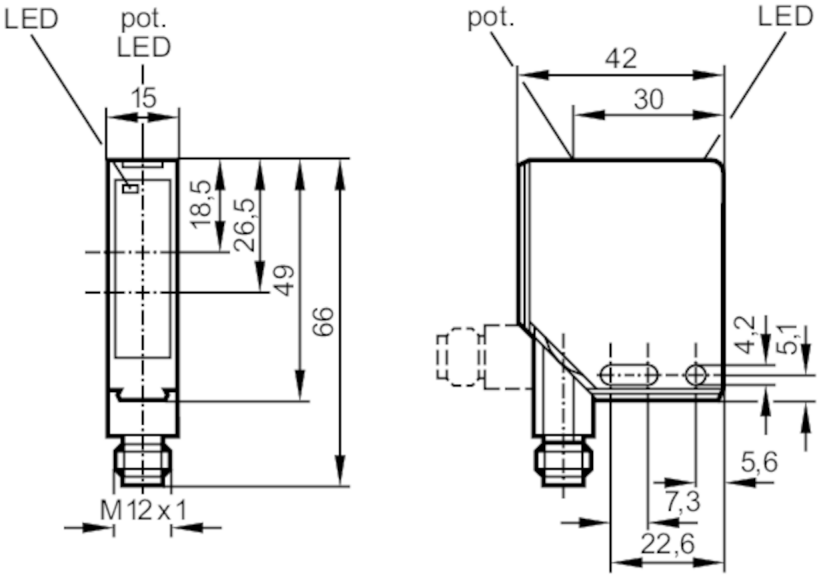

receiver in upper lens
transmitter in lower lens

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		Background suppression
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	26.5...31.6 DC
Current consumption	[mA]	< 35
Protection class		II
Reverse polarity protection		yes
Overvoltage protection		yes
Type of light		red light
Wave length	[nm]	660
Outputs		
Electrical design		AS-i
Output function		light-on/dark-on mode; (parameterisable)
Switching frequency DC	[Hz]	1500
Detection zone		
Range	[mm]	20...250
Range adjustable		yes
Max. light spot diameter	[mm]	12.5
Light spot dimensions refer to		at maximum range

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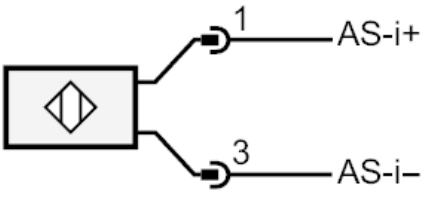
Background suppression available		yes	
Operating conditions			
Ambient temperature	[°C]	-25...60	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
AS-i classification			
AS-i I/O configuration	[hex]	1	
AS-i ID code	[hex]	1	
Mechanical data			
Housing		rectangular	
Dimensions	[mm]	49 x 15 x 42	
Materials		diecast zinc	
Lens material		PMMA	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		function	1 x LED, yellow flashing
Accessories			
Items supplied		screwdrivers	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Connector: 1 x M12; coding: A

Connection



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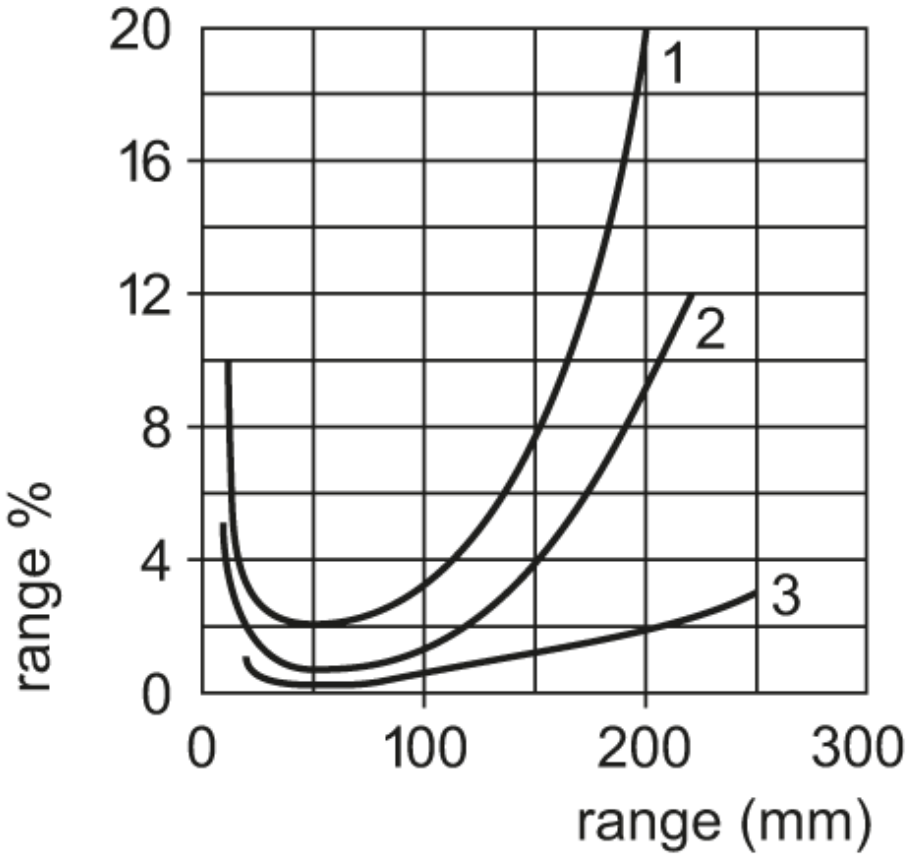
Diagrams and graphs

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