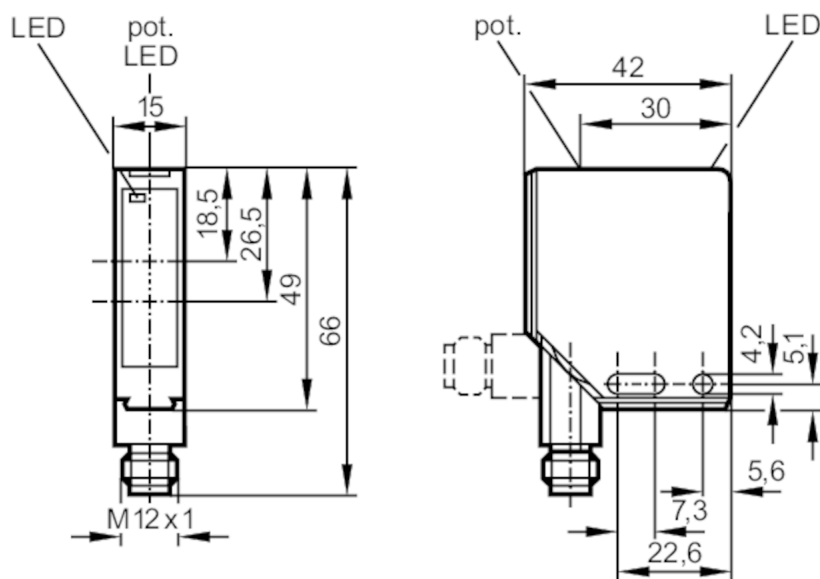


Diffuse reflection sensor with background suppression

OCH-ASI/US-100

Article no longer available - archive entry



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
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Operating conditions

Ambient temperature	[°C]	-25...60
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2
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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

Аксессуары

Items supplied	screwdrivers
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Remarks

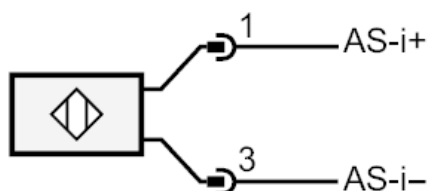
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

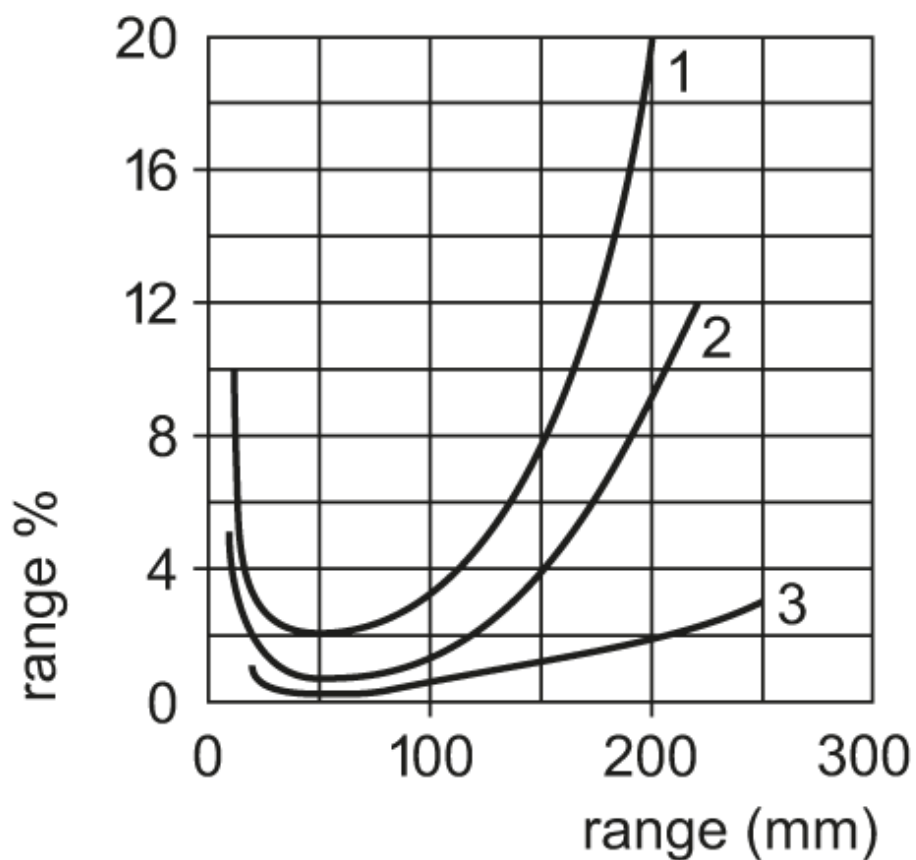


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Diagrams and graphs

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