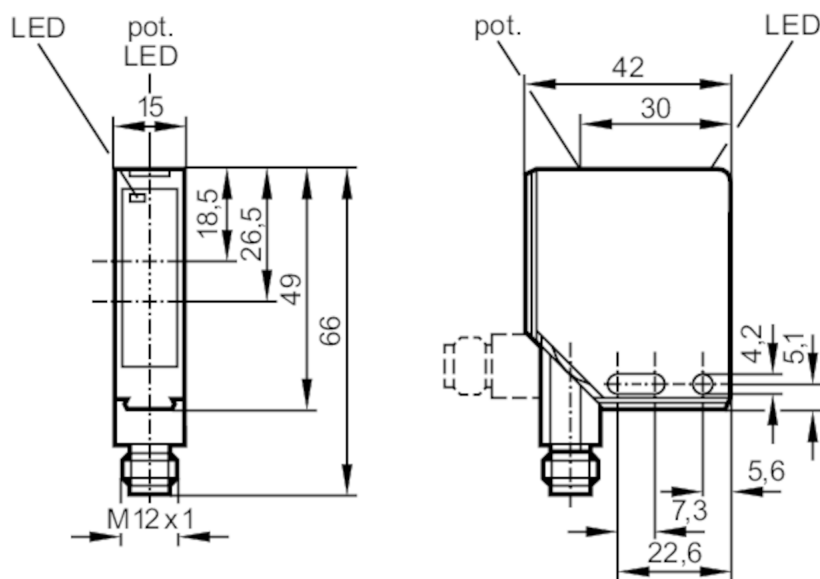




Diffuse reflection sensors with background suppression

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

System	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; (configurable)
Switching frequency DC [Hz]	1500

Monitoring range

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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OCH-ASI/US-100	
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
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

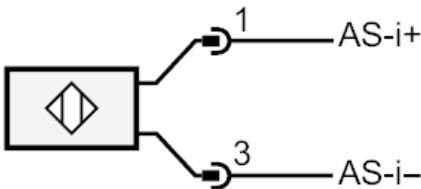
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



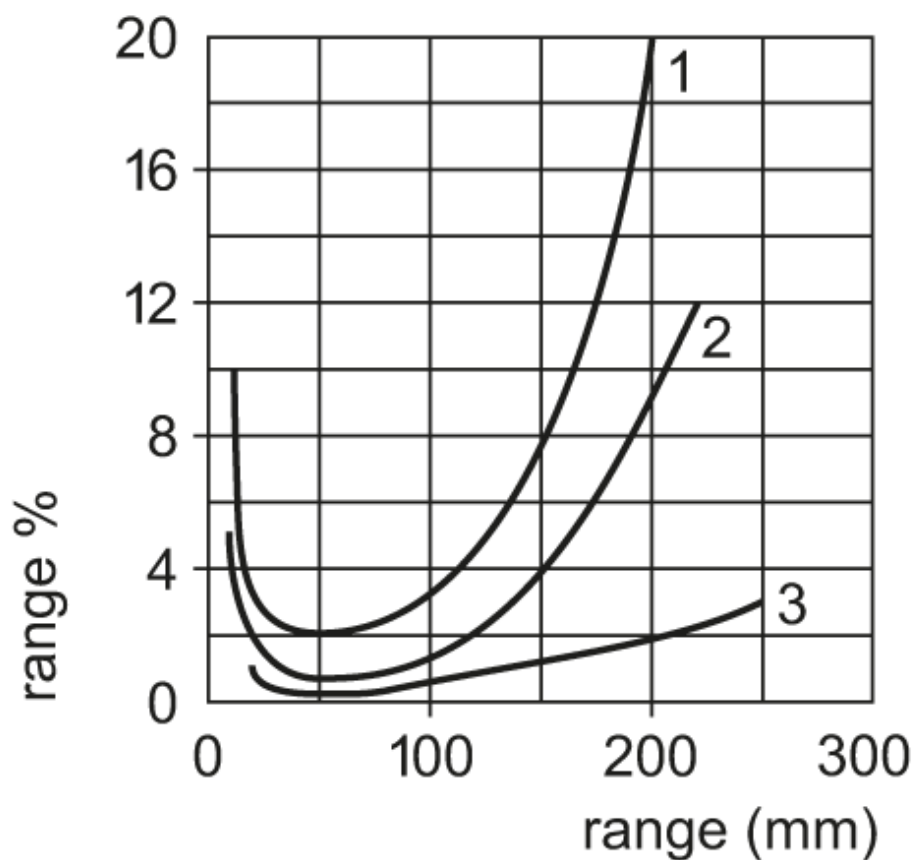


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Diagrams and graphs

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