

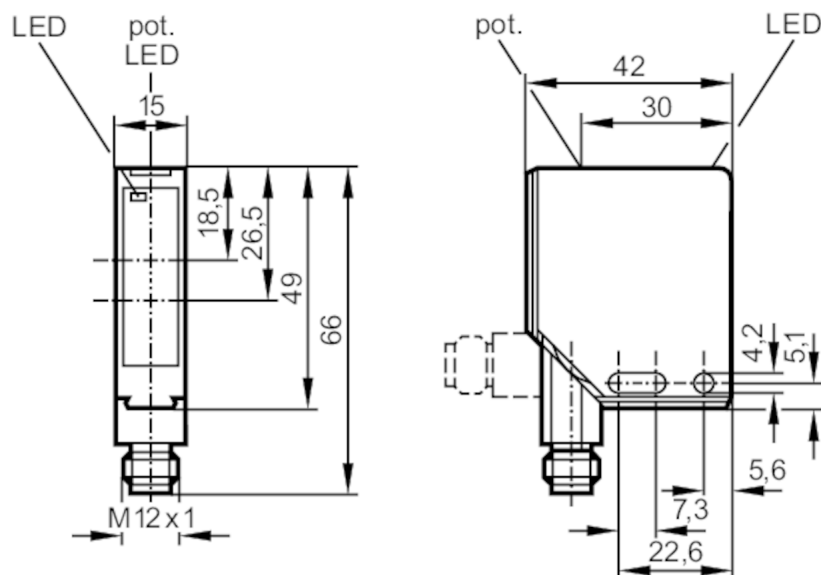
Diffuse reflection sensor with background suppression

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	red 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; ((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



Diffuse reflection sensor with background suppression

OCH-CPKG/US-100

Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

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
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

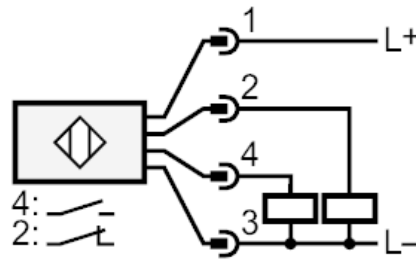




Diffuse reflection sensor with background suppression

OCH-CPKG/US-100

Connection



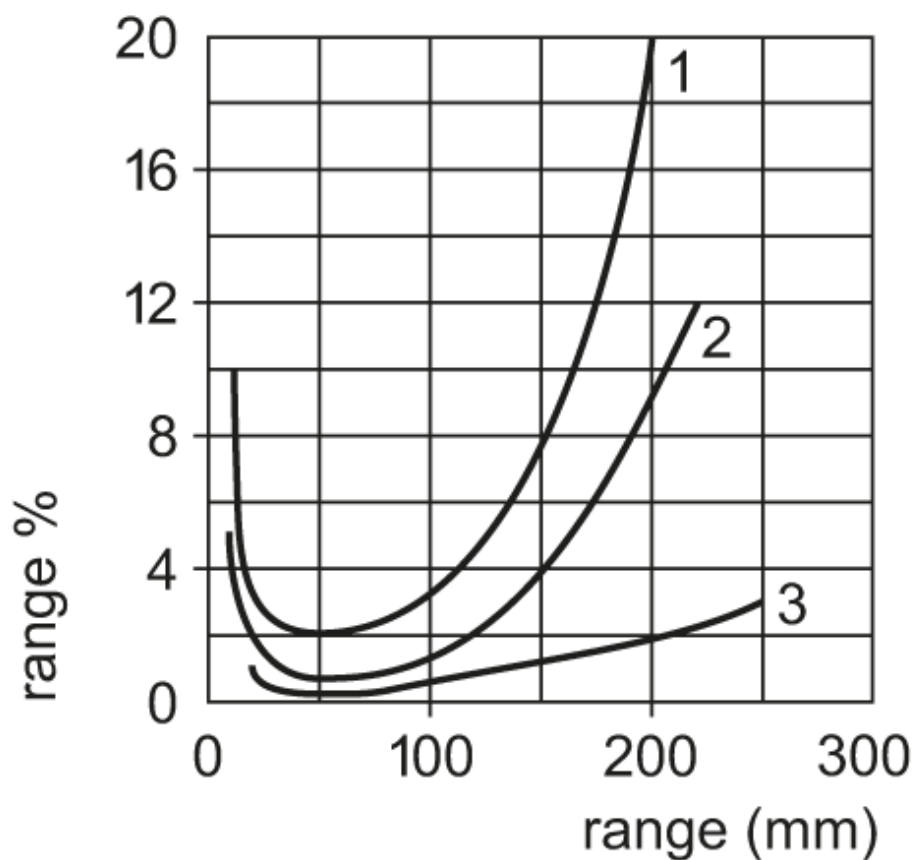
Core colours :
 BN = brown
 BU = blue
 BK = black

Diffuse reflection sensor with background suppression

OCH-CPKG/US-100

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