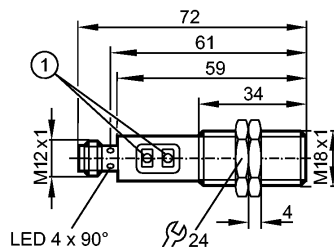


OGH500

Photoelectric sensors



1: Programming buttons



Made in Germany

Product characteristics

Diffuse reflection sensor

Threaded type

M18 x 1

Connector

Background suppression

Range 15...300mm (Range referred to white paper 200 x 200 mm, 90 % remission)

adjustable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	25
Type of light	red light 624 nm
Protection class	II
Reverse polarity protection	yes

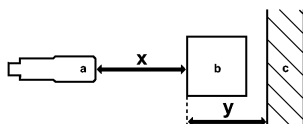
Outputs

Output function	light-on / dark-on programmable via pushbutton
Factory setting	light-on mode
Voltage drop [V]	< 2.5
Current rating [mA]	200 (...60 °C) / 150 (...80 °C)
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	1000

Range

Range [mm]	
- Object white (90 % remission)	15...300
- Object grey (18 % remission)	15...290
- Object black (6 % remission)	15...190
Light spot diameter [mm]	25 (at maximum range)

Accuracy graph



a: sensor

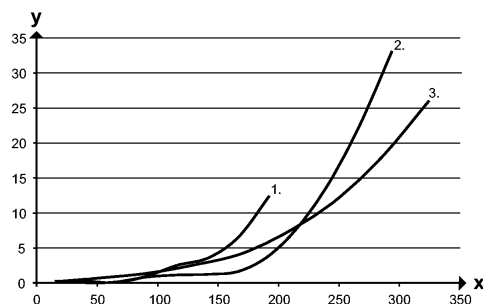
b: object

c: background

x: distance sensor / object

OGH500

y: min. distance object / background



Values in [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)

Environment

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[Years]	362

Mechanical data

Housing materials		stainless steel 316L / 1.4404; PA; LCP; EPDM; TPU
Lens material		PMMA
Weight	[kg]	0.065

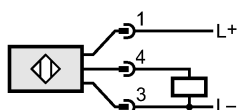
Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection		M12 connector
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Wiring



Accessories

Accessories (included)		2 lock nuts
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Remarks

Remarks		cULus - Class 2 source required
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