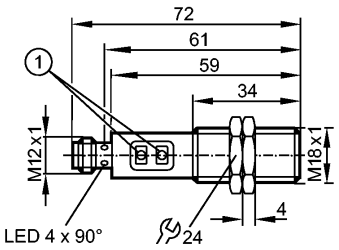
efector200

OGH500

OGH-FPKG/US100

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

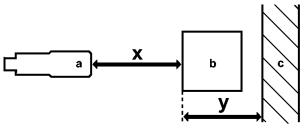
Output function		light-on / dark-on programmable via pushbutton
Factory setting		light-on mode
Voltage drop	[V]	< 2.5
Current rating	[mA]	200 (...60 °C) / 150 (...80 °C)
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	1000

Range

Range [mm]

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

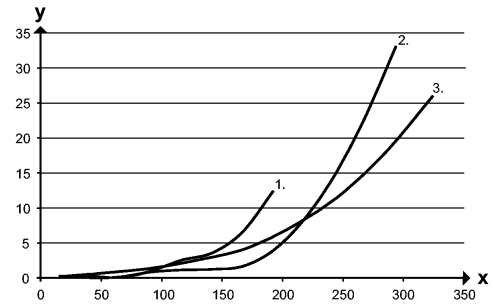


a: sensor
b: object

OGH500

OGH-FPKG/US100

c: background
x: distance sensor / object
y: min. distance object / background

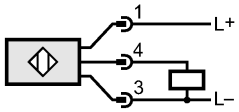


Values in [mm]
1 = object black (6 % remission), background white (90 % remission)
2 = object grey (18 % remission), background white (90 % remission)
3 = object white (90 % remission), background white (90 % remission)

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]	0.063
Displays / operating elements		
Output status indication	LED	yellow
Electrical connection		
Connection		M12 connector

Wiring





Accessories		
Accessories (included)		2 lock nuts
Remarks		
Remarks		cULus - Class 2 source required
Pack quantity	[piece]	1