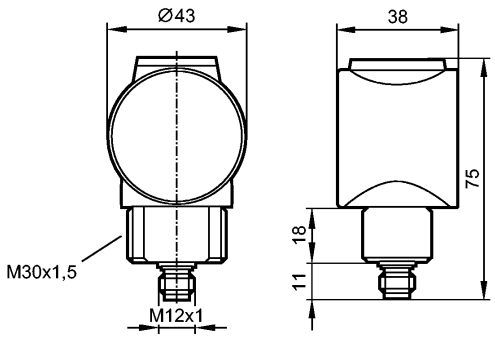
OIH280

OIH-HPKG/US/600MM

Photoelectric sensors



Made in USA

Product characteristics

Diffuse reflection sensor

Connector

Background suppression

Range 600mm (Range referred to white paper 200 x 200 mm, 90 % remission)

Electrical data

Electrical design		DC PNP
Operating voltage	[V]	10...30 DC; "supply class 2" to cULus.
Current consumption	[mA]	35
Type of light		red light 625 nm
Protection class		III
Reverse polarity protection		yes

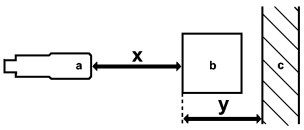
Outputs

Output function		light-on mode
Voltage drop	[V]	< 2.5
Current rating	[mA]	200
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	300

Range

Range	[mm]	600 (Range referred to white paper 200 x 200 mm, 90 % remission)
Light spot diameter	[mm]	30 (at maximum range)

Accuracy graph



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

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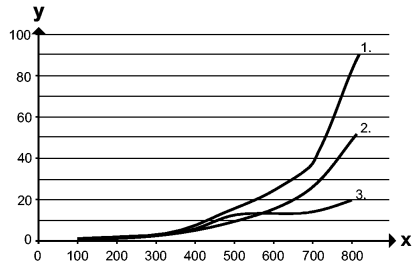
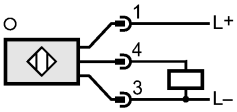


Values in [mm]
1 = object black (6 % remission), background white (90 % remission)
2 = object grey (18 % remission), background white (90 % remission)
3 = object white (90 % remission), background white (90 % remission)

Environment		
Ambient temperature	[°C]	-25...60
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
Mechanical data		
Housing materials		Zinc Alloy nickel-plated
Lens material		PMMA
Displays / operating elements		
Output status indication	LED	yellow
Operation	LED	green
Electrical connection		
Connection		M12 connector

Wiring



Accessories		
Accessories (included)		1 lock nut
Remarks		
Pack quantity	[piece]	1