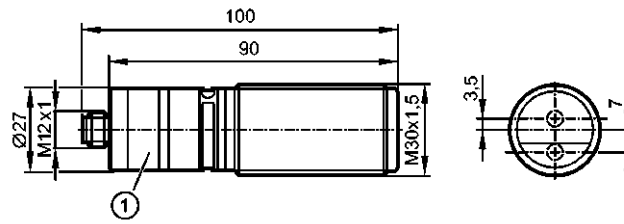


OID200

OIDLCPKG/US

Photoelectric sensors



1: setting ring



Product characteristics

Photoelectric distance sensor
Quick disconnect
Background suppression
Visible laser light, CLASS 2 LASER PRODUCT
setting ring
manually adjustable [cm/inch]
Measuring range 0.03...2 m
Background suppression ...20 m

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC; cULus - Class 2 source required
Current consumption [mA]	75 (24 V)
Life expectancy typ. [h]	50000
Type of light	red light 650 nm
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	2 switching outputs normally open / closed complementary
Current rating [mA]	2 x 100
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	11

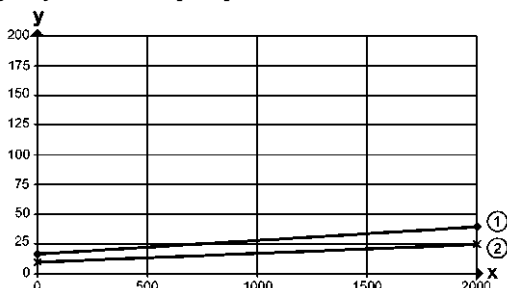
Monitoring range

Background suppression	...20 m
Light spot diameter [mm]	< 5 (Range 2 m)
Hysteresis [%]	< 2; black (6 % remission) at max. range

Hysteresis graph

x: distance in [mm]

y: Hysteresis in [mm]

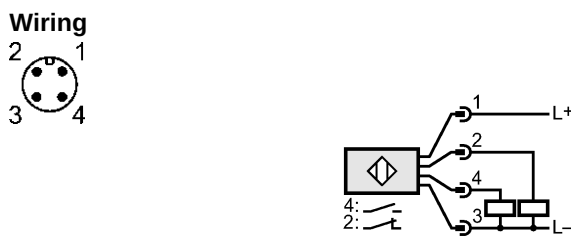


OID200

OIDLCPKG/US

Photoelectric sensors

- 1 = background black (6 % remission)
- 2 = background white (90 % remission)

Measuring / setting range	
Measuring range	[m] 0.03...2
Sampling rate	[Hz] 33
Interfaces	
IO-Link Device	
Transfer type	COM2 (38.4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9
IO-Link Device ID	373d / 00 01 75h
Profiles	Smart Sensor: Sensor Identification; Binary Data Channel; Process Value; Sensor Diagnosis
SIO mode	yes
Process data analogue	1
Process data binary	1
Min. process cycle time	[ms] 6.6
Environment	
Immunity to extraneous light	[klx] 10; on the object
Ambient temperature	[°C] -25...60, at ta < -10 °C warm-up is necessary, laser is off
Protection	IP 65 / IP 67
Tests / approvals	
EMC	EN 60947-5-2
MTTF	[Years] 239
Mechanical data	
Housing materials	housing: stainless steel; window: PMMA; LED window: polycarbonate; PBT (Pocan); PC (Makrolon); FPM (Viton)
Weight	[kg] 0.209
Displays / operating elements	
Display	Switching status LED yellow switching output pin 4 Power LED green
Display unit	cm, inch
Electrical connection	
Connection	M12 connector
Wiring 	
4: OUT / IO-Link	
Accessories	
Accessories (included)	2 lock nuts (stainless steel); M30
Remarks	
Remarks	Warning: laser light



OID200

OIDLCPKG/US

Photoelectric sensors

Power <= 4.0 mW wave length 650 nm
 Pulse 1.3 ns
 Do not stare into beam
 Avoid contact with laser light
 CLASS 2 LASER PRODUCT
 EN 60825-1:2007-10

Pack quantity	[piece]	1
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Other data

Accuracy

- extraneous light on the object max.: 10 klx

distance	Accuracy	
	black (6 % remission)	white (90 % remission)
0 mm	± 25 mm	± 20 mm
500 mm	± 25 mm	± 20 mm
1000 mm	± 25 mm	± 20 mm
1500 mm	± 25 mm	± 20 mm
2000 mm	± 30 mm	± 20 mm