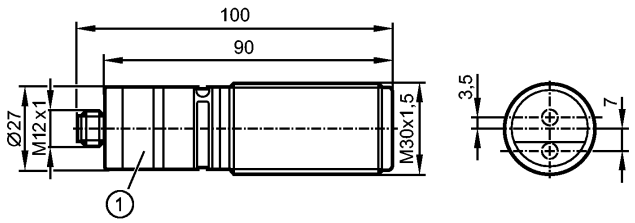
efector200

OID251

OIDLCPKG/US

Photoelectric sensors



1: setting ring

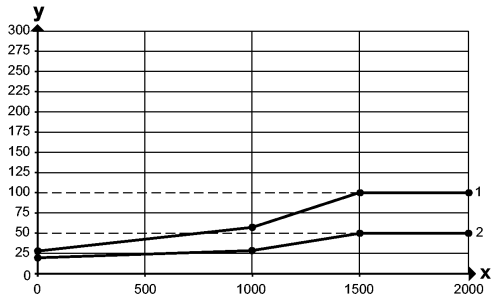
Product characteristics		
Photoelectric distance sensor		
Connector		
Background suppression		
Visible laser light, LASER CLASS 1		
setting ring		
manually adjustable [cm]		
Measuring range 0.03...2 m		
Background suppression ...20 m		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...30 DC
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		pulsed
Overload protection		yes
Switching frequency	[Hz]	11
Range		
Background suppression		...20 m
Light spot diameter	[mm]	< 5 (Range 2 m)
Hysteresis	[%]	< 5; black (6 % remission) at max. range

Hysteresis graph
x: distance in [mm]
y: Hysteresis in [mm]

OID251

OIDLCPKG/US

Photoelectric sensors



1 = object black (6 % remission)
2 = object white (90 % remission)

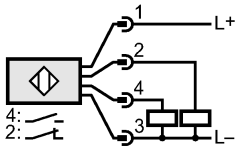
Measuring / setting range		
Measuring range	[m]	0.03...2
Sampling rate	[Hz]	33
Interfaces		
IO-Link device		
Transfer type		COM2 (38.4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
IO-Link device ID		394d / 00 01 8Ah
Profiles		Smart Sensor: Sensor Identification; Binary Data Channel; Process Value; Sensor Diagnosis
SIO mode		yes
Process data analogue		1
Process data binary		1
Min. process cycle time	[ms]	6.6
Environment		
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]	0.206
Displays / operating elements		
Display		Switching status LED yellow Operation LED green
Display unit		cm
Electrical connection		
Connection		M12 connector

Wiring

OID251

OIDLCPKG/US





4: OUT / IO-Link

Accessories

Accessories (included)	2 lock nuts VA (stainless steel); M30

Remarks

Remarks	Laser light CLASS 1 LASER PRODUCT IEC 60825-1 : 2007 complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 2007 cULus - Class 2 source required
Pack quantity [piece]	1

Other data

Accuracy
- extraneous light on the object max.: 8 klx

	Accuracy	
distance	black (6 % remission)	white (90 % remission)
0 mm	± 40 mm	± 40 mm
1000 mm	± 40 mm	± 40 mm
1500 mm	± 60 mm	± 45 mm
2000 mm	± 80 mm	± 50 mm