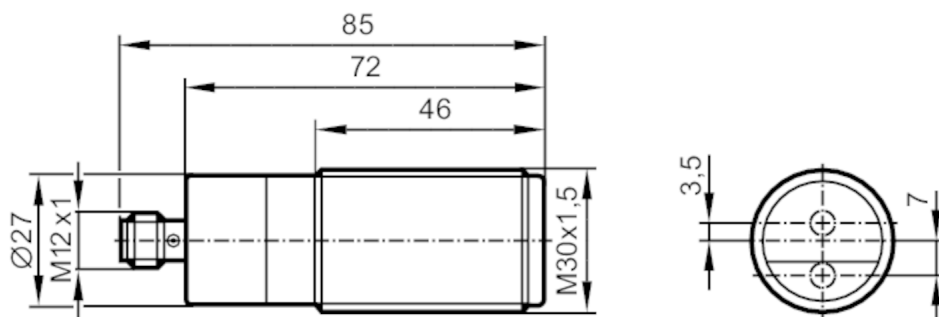




Photoelectric distance sensor

OIDLCPKG/US



Product characteristics

Type of light	red light
Laser protection class	1

Application

Special feature	Background suppression
-----------------	------------------------

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	75; (24 V)
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650
Typ. lifetime	[h]	50000

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
------------------------------	------------------------------

Inputs

Input circuit of digital inputs	1 x 24 V PNP; (IEC 61131-2 Typ 3)
---------------------------------	-----------------------------------

Outputs

Total number of outputs	2
Electrical design	PNP
Number of digital outputs	2
Output function	normally open / normally closed; (complementary)
Max. current load per output [mA]	100
Switching frequency DC [Hz]	11
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Max. light spot diameter	[mm]	5
Light spot dimensions refer to		2 m



Photoelectric distance sensor

OIDLCPKG/US

Detection range hysteresis	[%]	< 5
Note on monitoring range hysteresis		black 6% remission
Background suppression available		yes
Background suppression	[m]	< 20

Measuring/setting range

Measuring range	[m]	0.03...2
Sampling rate	[Hz]	33

Interfaces

Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
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
Supported DeviceIDs	Type of operation	DeviceID
	default	579

Operating conditions

Ambient temperature	[°C]	-25...60
Note on ambient temperature		at ta < -10 °C warm-up is necessary, laser is off
Protection		IP 65; IP 67; IP 68; IP 69K

Tests / approvals

EMC	EN 60947-5-2	
Laser protection class		1
Notes on laser protection	Caution:	laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF	[years]	210

Mechanical data

Weight	[g]	227.5
Materials		housing: stainless steel; front pane: PMMA; PEI; EPDM

Displays / operating elements

Display	switching status	LED, yellow switching output 1
	operation	LED, green
Display unit		cm

Accessories

Items supplied		lock nuts: 2 x M30, stainless steel
----------------	--	-------------------------------------

OID254



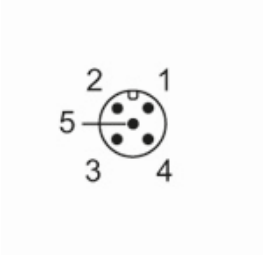
Photoelectric distance sensor

OIDLCPKG/US

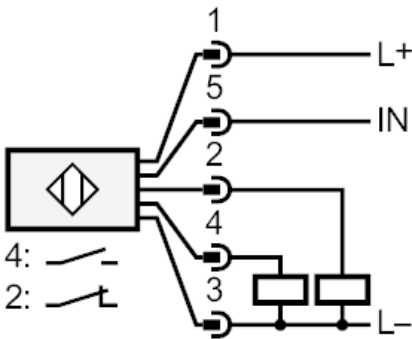
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



4: OUT / IO-Link

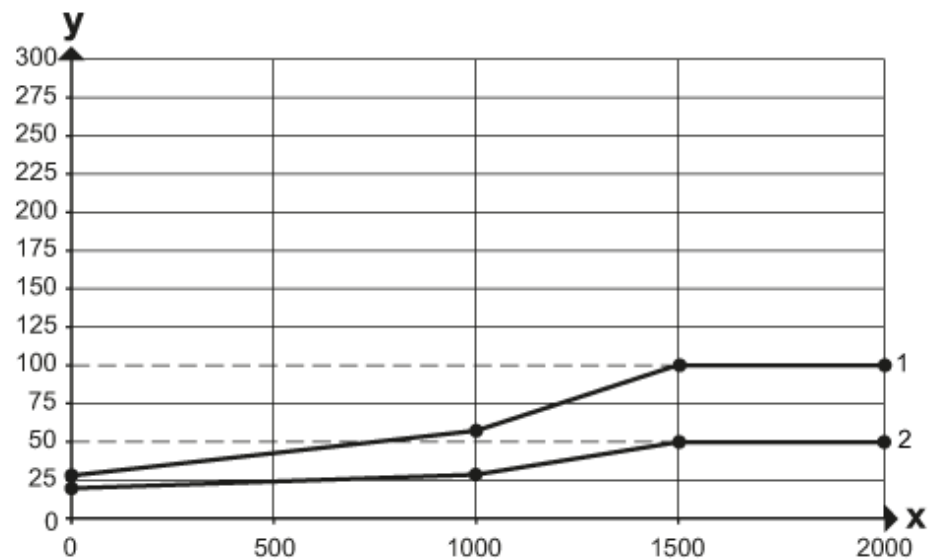


Photoelectric distance sensor

OIDLCPKG/US

Diagrams and graphs

hysteresis graph



x: distance [mm]

y: Hysteresis [mm]

1 = object black 6% remission

2 = object white 90% remission