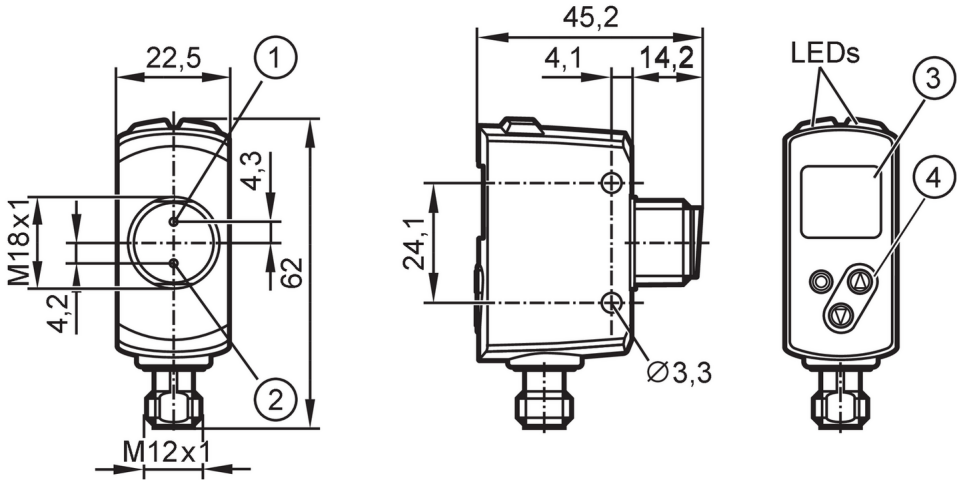
OGD592

Photoelectric distance sensor

OGDLFPKG/IO-LINK/US

Article no longer available - archive entry

Alternative articles: OGD550 or OGD250
When selecting an alternative article and accessories please note that technical data may differ!



1 receiving element
2 transmitting element
3 alphanumeric display , 3-digit
4 programming buttons

Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular with M18 thread
Application		
Application	[m]	0.03...0.3
Application		Industrial applications / factory automation
Electrical data		
Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
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
Outputs		
Electrical design		PNP
Output function		2 x normally open / normally closed; (parameterisable)
Permanent current rating of switching output DC	[mA]	100; (per output)
Type of short-circuit protection		pulsed
Overload protection		yes

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Detection zone			
Max. light spot width	[mm]	3	
Max. light spot height	[mm]	3	
Light spot dimensions refer to		at maximum range	
Background suppression	[m]	0.03...19.2	
Measuring/setting range			
Measuring range	[m]	0.025...0.3	
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 - SSP 0	Generic Profiled Sensor
		Function	Device identification
		Function	Process data variable
		Function	Device diagnosis
		Function	Teach channel
SIO mode		yes	
Required master port type		A	
Process data analogue		2	
Process data binary		2	
Min. process cycle time	[ms]	5	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	1012
Operating conditions			
Ambient temperature	[°C]	-25...50	
Note on ambient temperature		In ambient temperatures < -10 °C a warm-up time is necessary.	
		Laser is off.	
Storage temperature	[°C]	-30...80	
Protection		IP 65; IP 67	
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 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
MTTF	[years]	181	
Mechanical data			
Weight	[g]	205	
Housing		rectangular with M18 thread	

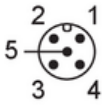
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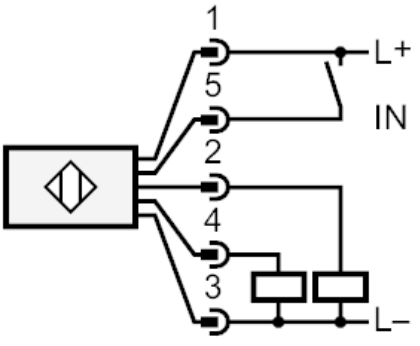
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Dimensions [mm]		61.7 x 22.5 x 45.2
Thread designation		M18 x 1
Materials		housing: stainless steel (316L/1.4404); PPSU; ABS; PMMA; PBT / PC; EPDM; front pane: glass
Lens alignment		side lens
Displays / operating elements		
Display	switching status	2 x LED, yellow
		1 x alphanumeric display, 3-digit
Accessories		
Items supplied		lock nuts: 2
Remarks		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.
Electrical connection		

Connector: 1 x M12; coding: A; Contacts: 5



Connection



2:	OUT2: switching output
4:	OUT1: switching output or IO-Link
5:	IN1: Laser On/ Off

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Other data		
Parameter	Setting range	Factory setting
Uni	mm, inch	mm
OU1	Hno, Hnc, Fno, Fnc, OFF	Hno
SP1 [mm]	30...300	300
nP1 [mm]	30...300	90
FP1 [mm]	30...300	110
OU2	Hno, Hnc, Fno, Fnc, OFF	Hno
SP2 [mm]	30...300	30
nP2 [mm]	30...300	190
FP2 [mm]	30...300	210
dS1 [s]	0...0.1...5	0
dr1 [s]	0...0.1...5	0
dS2 [s]	0...0.1...5	0
dr2 [s]	0...0.1...5	0
dFo [s]	0...0.1...5	0.1
dIS	ON / OFF	ON

Repeatability: 6 σ

	repeatability of the measured values	
distance	white (90 % remission)	black (6 %...90 % remission)
25...300 mm	2.0 mm	5.0 mm

The values apply at	
Extraneous light on the object	< 10 klx
constant ambient conditions	23 °C / 960 hPa
minimum power-on time in minutes	15

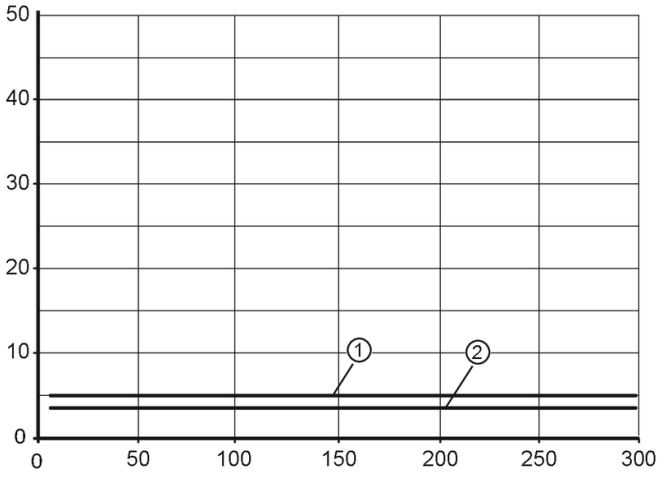
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Diagrams and graphs

hysteresis graph

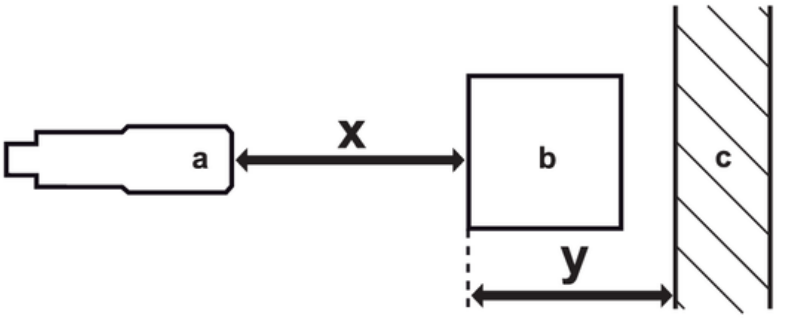


x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = background (black 6 % remission)

2 = background white (90 % remission)



a: sensor

b: object

c: background

x: distance sensor/object [mm]

y: min. distance object/background [mm]