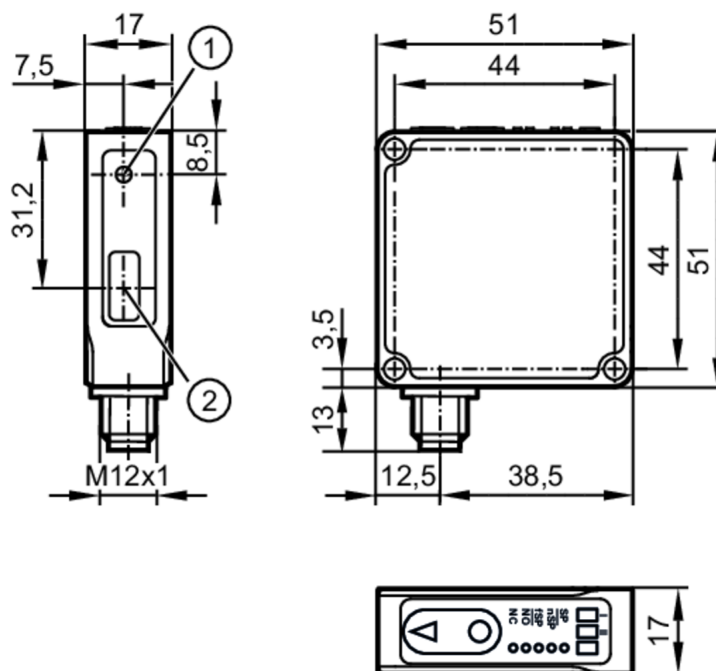


Photoelectric distance sensor

OMHLFCKG/IO-Link/US



- 1 transmitter
2 receiver



Product characteristics

Type of light	red light
Laser protection class	1
Housing	rectangular

Electrical data

Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 60
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 0.3
Type of light		red light
Wave length	[nm]	630
Typ. lifetime	[h]	50000

Inputs / outputs

Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 2
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Inputs

Inputs	Laser On/ Off
Number of digital inputs	1

Outputs

Total number of outputs	2
Electrical design	PNP/NPN; (parameterisable)



Photoelectric distance sensor

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Number of digital outputs	2
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2.2
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	200
Notes on switching frequency [Hz]	standard
Short-circuit protection	yes
Overload protection	yes

Detection zone

Range adjustable	yes
Max. light spot diameter [mm]	0.5
Light spot dimensions refer to	at maximum range

Measuring/setting range

Measuring range [m]	0.03...0.08; (6...90% remission)
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Accuracy / deviations

Temperature compensation	yes
Repeatability [mm]	0.03
Resolution [mm]	0,01
Notes on the accuracy / deviation	The indicated values are reached after a warm-up time of 20 minutes.

Software / programming

Parameter setting options	hysteresis / window / 2-point; Switch-on and switch-off delay; switch-on operations; Teach function; filter; light-on/dark-on mode; laser switch-off; Type of operation
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Interfaces

Communication interface	IO-Link								
Transmission type	COM2 (38,4 kBaud)								
IO-Link revision	1.1								
SDCI standard	IEC 61131-9								
Profiles	Measuring and Switching Sensor, 1 channel, Identification and Diagnosis, Sensor Control, Teach two value, Locator, ProductURI								
SIO mode	yes								
Required master port type	A								
Min. process cycle time [ms]	3.2								
IO-Link process data (cyclical)	<table> <tr> <th>function</th><th>bit length</th></tr> <tr> <td>process value</td><td>16</td></tr> <tr> <td>device status</td><td>4</td></tr> <tr> <td>binary switching information</td><td>2</td></tr> </table>	function	bit length	process value	16	device status	4	binary switching information	2
function	bit length								
process value	16								
device status	4								
binary switching information	2								
IO-Link functions (acyclical)	application specific tag; operating hours counter								
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>1605</td></tr> </table>	Type of operation	DeviceID	default	1605				
Type of operation	DeviceID								
default	1605								
Note	For further information please see the IODD PDF file under "Downloads"								

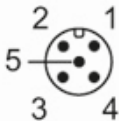
Operating conditions

Ambient temperature [°C]	0...60
Storage temperature [°C]	-10...65



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Protection		IP 65; IP 67	
Tests / approvals			
EMC	EN 61000-4-2 ESD	4 kV CD / plastics	
		8 kV AD / metal	
	EN 61000-4-3 HF radiated	10 V/m	
	EN 61000-4-6 HF conducted	10 V	
	EN 61000-4-4 Burst	2 kV	
	EN 55011	class B	
Vibration resistance	EN 60068-2-6 Fc	(10-55) Hz 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz	
Shock resistance	EN 60068-2-27 Ea	30 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes	
Laser protection class		1	
Notes on laser protection	Caution:	laser light	
	laser class:	1	
		EN/IEC 60825-1 2007	
		EN/IEC 60825-1 2014	
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.	
MTTF	[years]	572	
UL approval	power supply	Class 2	
Mechanical data			
Weight	[g]	129	
Housing		rectangular	
Dimensions	[mm]	51 x 51 x 17	
Materials		housing: diecast zinc; front pane: plastics	
Tightening torque	[Nm]	5	
Displays / operating elements			
Display	switching status	2 LED, yellow	
	supply voltage	1 LED, green	
	Operating mode	5 LED, white	
Teach function		yes	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Connector: 1 x M12; coding: A			
			

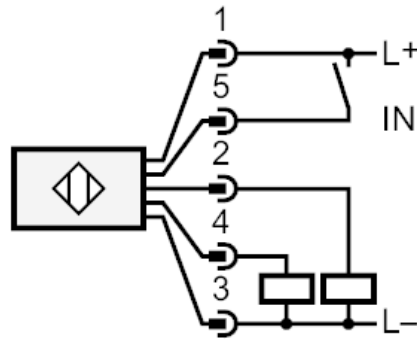
OMH550



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Connection



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