



Measuring light grid

OYA2540-255-0-10-C-3-IO



- 1 transmitter
- 2 LED green
- 3 LED red
- 4 receiver
- 5 LED green
- 6 LED yellow
- 7 LED red



Product characteristics

Type of light	Infrared light
Electrical design	PNP/NPN; (configurable)
Protection	IP 65; IP 67

Electrical data

Operating voltage	[V]	19.2...28.8 DC
Protection class		III
Reverse polarity protection		yes



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Max. power-on delay time	[ms]	300
Type of light		Infrared light
Wave length	[nm]	880
Receiver		
Current consumption	[mA]	110
Transmitter		
Current consumption	[mA]	15
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1
Outputs		
Electrical design		PNP/NPN; (configurable)
Number of digital outputs		1
Output function		normally open / closed; (configurable)
Max. voltage drop switching output DC	[V]	2
Max. current load per output	[mA]	100
Switching frequency DC	[Hz]	10
Short-circuit protection		yes
Overload protection		yes
Monitoring range		
Number of beams		255
Sensing field height	[mm]	2540
Sensing field width (low light intensity)	[m]	0...2
Sensing field width (high light intensity)	[m]	1...10
Distance between beams	[mm]	10
Software / programming		
Parameter setting options		hysteresis / window; second switch point; Switch-on and switch-off delay; switch-on operations; Teach function; light-on/dark-on mode
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles		Smart Sensor: Device Identification; Multi-channel, two setpoint switching sensor, type 0 Generic Profiled Sensor; Process Data Variable; Device Diagnosis; Teach Channel
SIO mode		yes
Required master port class		A
Min. process cycle time	[ms]	10
IO-Link process data (cyclical)	Function	bit length
	process value	80
	device status	4
	binary switching information	2
IO-Link functions (acyclical)		application specific tag; operating hours counter



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Supported DeviceIDs	Type of operation	DeviceID
	default	1404
Note	For further information please see the IODD PDF file at "Downloads"	

Operating conditions		
Ambient temperature	[°C]	-10...55
Storage temperature	[°C]	-25...70
Protection		IP 65; IP 67
Max. immunity to extraneous light	[klx]	10

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class A
Vibration resistance	EN 60068-2-6 Fc	(10-55) Hz 1 mm amplitude, vibration duration 5 min., 30 min. per axis with 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
MTTF	[years]	37

Mechanical data		
Weight	[g]	7.5
Housing		rectangular
Dimensions	[mm]	2613 x 30 x 28
Material		housing: aluminum; front lens: PC
Length L	[mm]	2613

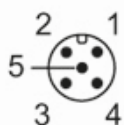
Displays / operating elements		
Display	transmitter	2 LED
	receiver	3 LED

Accessories		
Items supplied	Assembly angle: 3	
	Slot nuts: 3	
	Nuts	

Remarks		
Pack quantity	1 pcs.	

Electrical connection - receiver

Connector: 1 x M12; coding: A

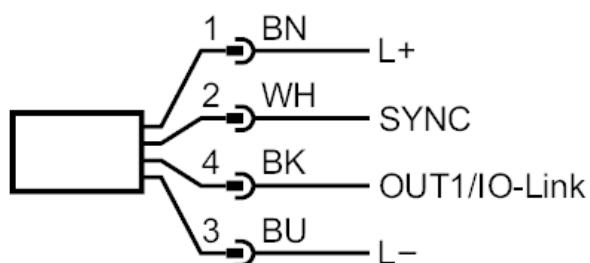




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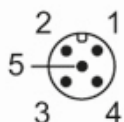
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Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

