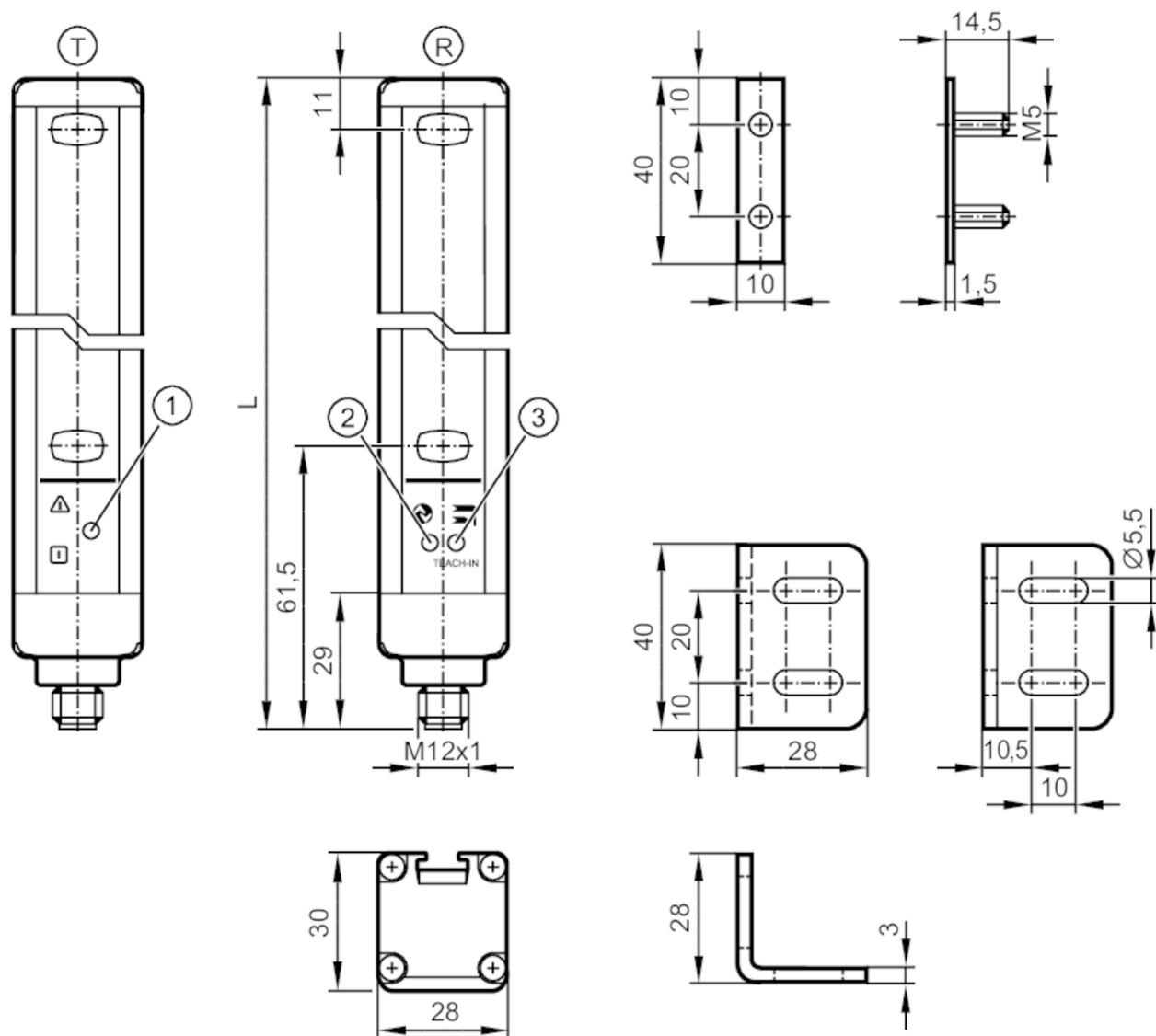


OY5103



Measuring light grid

OYA0590-60-0-10-C-3-IO



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



Product characteristics

Type of light	Infrared light
Electrical design	PNP/NPN; (configurable)
Output function	normally open / closed; (configurable)
Protection	IP 65; IP 67

Electrical data

Operating voltage	[V]	19.2...28.8 DC
Protection class		III



Measuring light grid

OYA0590-60-0-10-C-3-IO

Reverse polarity protection	yes
Max. power-on delay time [ms]	300
Type of light	Infrared light
Wave length [nm]	880
Receiver	
Current consumption [mA]	85
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]	16
Short-circuit protection	yes
Overload protection	yes
Monitoring range	
Number of beams	60
Sensing field height [mm]	590
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	Common - I&D Function
SIO mode	yes
Required master port class	A
Min. process cycle time [ms]	10.4
IO-Link process data (cyclical)	Function process value device status binary switching information
	bit length 80 4 2



Measuring light grid

OYA0590-60-0-10-C-3-IO

IO-Link functions (acyclical)	application specific tag; operating hours counter	
Supported DeviceIDs	Type of operation	DeviceID
	default	1400
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]	135

Mechanical data

Weight	[g]	2
Housing		rectangular
Dimensions	[mm]	663 x 30 x 28
Material		housing: aluminum; front lens: PC
Length L	[mm]	663

Displays / operating elements

Display	transmitter	2 LED
	receiver	3 LED

Accessories

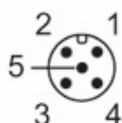
Items supplied	Assembly angle: 2	
	Slot nuts: 2	
	Nuts	

Remarks

Pack quantity	1 pcs.
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Electrical connection - receiver

Connector: 1 x M12; coding: A

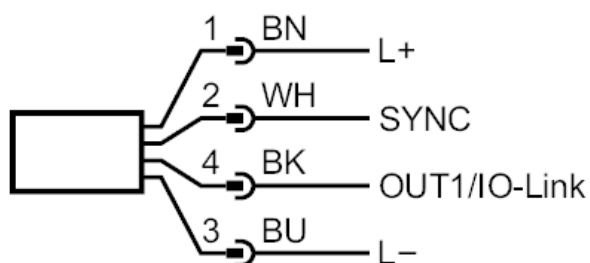




Measuring light grid

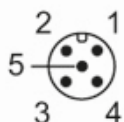
OYA0590-60-0-10-C-3-IO

Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

