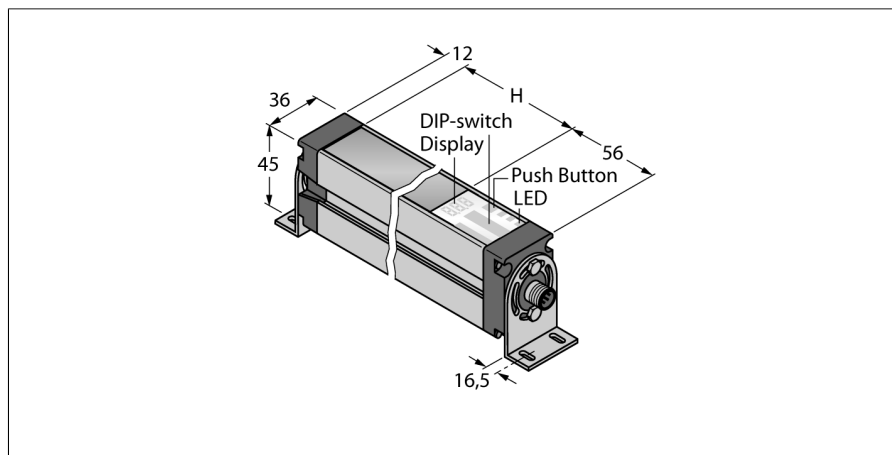


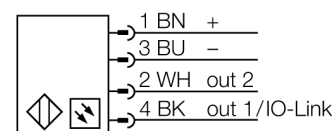
Measuring Light Screen Receiver EA5R2100XKQ



Type	EA5R2100XKQ
ID	3015176
Optical data	
Function	Light screen
Operating mode	Receiver
Optical resolution	5 mm
Range	400...4000 mm
Scan field	2100 mm
Number of beams	420
Electrical data	
Operating voltage U_o	18...30 VDC
DC rated operating current I_o	≤ 375 mA
No-load current I_o	≤ 400 mA
Communication protocol	IO-Link
Output function	2 x NO contact, PNP/NPN, analog output
Voltage output	0...10 V
Load resistance	≥ 2000 Ω
Readiness delay	≤ 2 s
Response time typical	< 30.8 ms
Blanking function	yes
IO-Link	
IO-Link specification	V 1.0
IO-Link port type	Class A
Communication mode	COM 2 (38.4 kBaud)
Process data width	16 bit
Measured value information	12 bit
Minimum cycle time	109 ms
Function pin 4	IO-Link
Function Pin 2	DI
Maximum cable length	20 m
Included in the SIDI GSDML	Yes

- Male M12 × 1, 8-pin
- Protection class IP65
- Resolution 5 mm
- Max. range 4 m
- 2 × EZA-MBK-11 brackets included in delivery
- Operating voltage 18...30 VDC
- IO-Link communication and PNP switching output (standard via IO-Link splitter CSB-M1240M1280 included in scope of delivery) or analog output 0...10 V via splitter CSB-M1250M1280 (to be ordered separately)
- Extension cable required between emitter and splitter, type DEE2R-8xxD
- 2 × PNP switching output (SIO mode)
- 2 × analog outputs 0...10 V (SIO mode)

Wiring Diagram

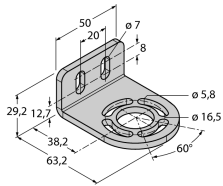
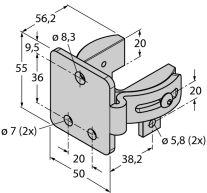


Functional principle

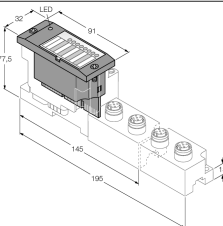
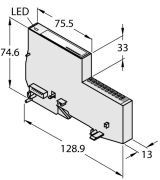
The measuring light screen EZ-Array is ideal for sizing and product profiling, edge and centre guiding, sag and hole detection as well as parts counting. The two-part light screen is easily installed. The electronics is incorporated in the receiver housing and can be configured via 6 DIP switches. For special functions, the screen can be adjusted via PC with the enclosed software. To synchronize emitter and receiver just interconnect the sync-outputs of both.

Mechanical data	
Design	Rectangular, EZ-Array
Housing material	Metal, AL, Anodized
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1
Ambient temperature	-40...+70 °C
Protection class	IP65
Power-on indication	LED, Red
Error indication	LED, red (dual color LED)
Excess gain indication	LED, red
Tests/approvals	
Approvals	CE

Accessories

Type code	Ident no.		Dimension drawing
EZA-MBK-11	3071470	Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm	
EZA-MBK-12	3071756	Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm	
EZA-MBK-20	3072587	Mounting bracket, steel, black-finished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm	

Function accessories

Type code	Ident no.		Dimension drawing
BL67-4IOL	6827386	4-channel IO-Link Master module for the modular BL67 I/O-system	
BL20-E-4IOL	6827385	IO-Link master module for the modular BL20 I/O system, 4-channel	

Function accessories

Type code	Ident no.		Dimension drawing
USB-2-IOL-0002	6825482	IO-Link Master with integrated USB port	
TBIL-M1-16DXP	6814102	16-channel I/O-hub for the connection of 16 digital PNP signals to an IO-Link master (input/output freely selectable per channel)	
TBEN-S2-4IOL	6814024	Compact multiprotocol I/O module, 4 IO-Link Master 1.1 Class A, 4 universal PNP digital channels 0.5 A	
50153501 MD 742-11-82X5-12 Leuze	100051716	16-channel I/O hub for the connection of 16 digital PNP signals to an IO-Link master (input/output freely selectable per channel)	