

EA5R300NUXMODQ

Measuring Light Screen – Receiver



Technical data

Type	EA5R300NUXMODQ
ID	3076197
Optical data	
Function	Light screen
Operating mode	Receiver
Optical resolution	5 mm
Range	400...4000 mm
Scan field	300 mm
Number of beams	60
Electrical data	
Operating voltage	15...30 VDC
DC rated operational current	≤ 375 mA
No-load current	≤ 400 mA
Communication protocol	Modbus RTU RS485
Output function	2 normally open contact, NPN/Analog output
Type of analog output	0...10 V
Voltage output	0...10 V
Load resistance	≥ 2000 Ω
Readiness delay	≤ 2 s
Response time typical	< 5 ms
Blanking function	yes
Mechanical data	
Design	Rectangular, EZ-Array
Dimensions	45.2 x 36 x 379 mm
Housing material	Metal, AL, Anodized
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1

Features

- Male M12 × 1, 8-pin
- Scan field 300 mm
- Protection class IP65
- Resolution 5 mm
- Max. range 4 m
- 2 × EZA-MBK-11 brackets included in delivery
- Operating voltage 15...30 VDC
- 2x NPN switching output
- 2 x analog outputs 0...10 V
- Modbus RTU via RS485, female M12 × 1, 5-pin
- Supports baud rates: 9600, 19200, 38400, 57600 and 115200 Bd

Wiring diagram



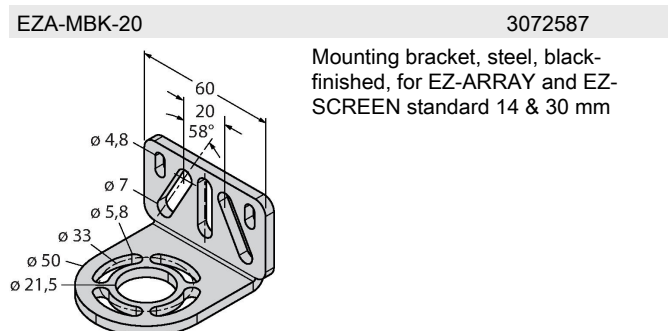
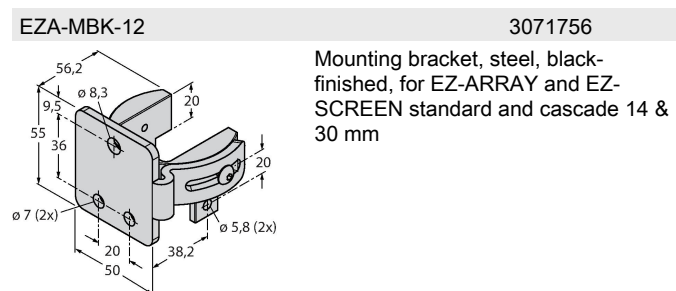
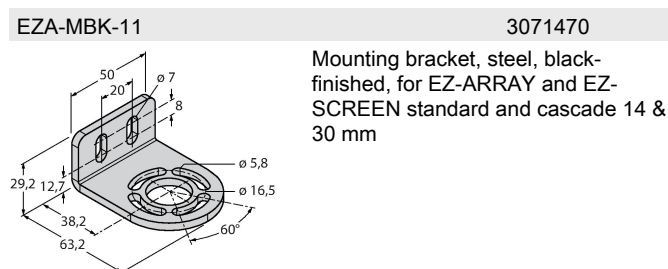
Technical data

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

Functional principle

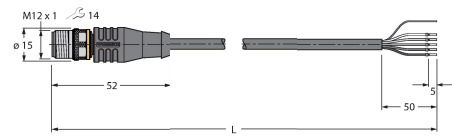
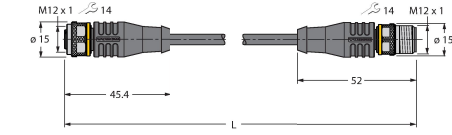
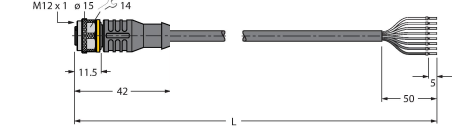
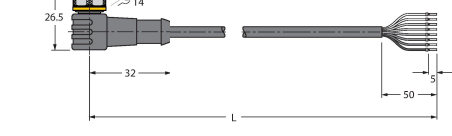
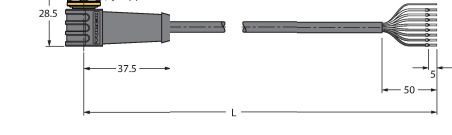
The measuring light screen EZ-Array is ideal for sizing and product profiling, edge and centre guiding, sag and hole detection as well as parts counting. The two-part light screen is easily installed. The electronics is incorporated in the receiver housing and can be configured via 6 DIP switches. For 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.

Accessories



Accessories

Dimension drawing	Type	ID	
	EZA-USB-485-01	3083025	USB-RS485 converter cable, male M12 x 1 on male USB type A
	RKS8T-2/TEL	6625446	Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, sheath material: PVC, black; shielded; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKS8T-2/TXL	6625461	Connection cable, M12 female connector, angled, 8-pin shielded, cable length: 2 m, jacket material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com

Dimension drawing	Type	ID	
	RSS4.5T-2/TEL	6626367	
	RKS4.5T-2-RSS4.5T/TEL	6626388	
	RKC8T-2/TEL	6625130	Connection cable, M12 female, straight, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKC8T-2/TEL	6625133	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKS8T-2/TEL	6625449	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, sheath material: PVC, black; shielded; cULus approval; other cable lengths and qualities available, see www.turck.com