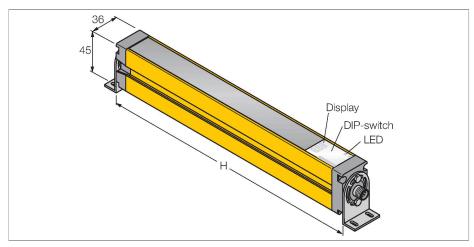


SLSE30-1500Q5

Emitter



Technical data

ID 3071245 Optical data Function Light type IR Wavelength 950 nm Optical resolution 30 mm Range 10018000 mm Scan field 1500 mm Number of beams 100 With muting function no Scan Code Adjustable Electrical data Operating voltage Operating voltage 2028 VDC Residual ripple < 10 % U _s DC rated operational current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Туре	SLSE30-1500Q5
Function Light type Light type IR Wavelength 950 nm Optical resolution 30 mm Range 10018000 mm Scan field 1500 mm Number of beams 100 With muting function no Scan Code Adjustable Electrical data Coperating voltage Operating voltage 2028 VDC Residual ripple < 10 % U₂,	ID	3071245
Light type IR Wavelength 950 nm Optical resolution 30 mm Range 10018000 mm Scan field 1500 mm Number of beams 100 With muting function no Scan Code Adjustable Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U _{ss} DC rated operational current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Optical data	
Wavelength 950 nm Optical resolution 30 mm Range 10018000 mm Scan field 1500 mm Number of beams 100 With muting function no Scan Code Adjustable Electrical data Operating voltage Operating voltage 2028 VDC Residual ripple < 10 % U₂	Function	Light screen
Optical resolution 30 mm Range 10018000 mm Scan field 1500 mm Number of beams 100 With muting function no Scan Code Adjustable Electrical data Coperating voltage Operating voltage 2028 VDC Residual ripple < 10 % U₅	Light type	IR
Range 10018000 mm Scan field 1500 mm Number of beams 100 With muting function no Scan Code Adjustable Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U _{ss} DC rated operational current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Wavelength	950 nm
Scan field Number of beams 100 With muting function Scan Code Adjustable Electrical data Operating voltage Residual ripple C 10 % U _{ss} DC rated operational current Short-circuit protection Reverse polarity protection Response time typical With restart interlock Blanking function Design Rectangular, EZ-Screen Dimensions Housing material Metal, AL, Yellow polyester plastic, Acrylic	Optical resolution	30 mm
Number of beams 100 With muting function no Scan Code Adjustable Electrical data 2028 VDC Residual ripple < 10 % U₂₂	Range	10018000 mm
With muting function no Scan Code Adjustable Electrical data 2028 VDC Residual ripple < 10 % U₂s	Scan field	1500 mm
Scan Code Adjustable Electrical data Operating voltage 2028 VDC Residual ripple < 10 % U₅s DC rated operational current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Number of beams	100
Electrical data Operating voltage 2028 VDC Residual ripple <10 % U₅ DC rated operational current ≤100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical <27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	With muting function	no
Operating voltage 2028 VDC Residual ripple < 10 % U₂₅	Scan Code	Adjustable
Residual ripple < 10 % U₅₅	Electrical data	
DC rated operational current ≤ 100 mA Short-circuit protection yes Reverse polarity protection yes Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Operating voltage	2028 VDC
Short-circuit protection yes Reverse polarity protection yes Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Residual ripple	< 10 % U _{ss}
Reverse polarity protection Response time typical Vith restart interlock Blanking function Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	DC rated operational current	≤ 100 mA
Response time typical < 27 ms With restart interlock yes Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Short-circuit protection	yes
With restart interlock Blanking function yes Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Reverse polarity protection	yes
Blanking function Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Response time typical	< 27 ms
Mechanical data Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	With restart interlock	yes
Design Rectangular, EZ-Screen Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Blanking function	yes
Dimensions 45 x 36 x 1569 mm Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Mechanical data	
Housing material Metal, AL, Yellow polyester Lens plastic, Acrylic	Design	Rectangular, EZ-Screen
Lens plastic, Acrylic	Dimensions	45 x 36 x 1569 mm
	Housing material	Metal, AL, Yellow polyester
Cascadable No	Lens	plastic, Acrylic
	Cascadable	No



Features

- Male M12 × 1, 5-pin
- ■Test function
- ■Protection class IP65
- Adjustment via DIP switch
- Operating voltage 24 VDC +-15 %
- Resolution 30 mm
- Scan field 1500 mm
- All devices incl. 2 EZA-MBK-11 mounting brackets; 900 mm devices and longer additionally incl. 1 EZA-MBK-12
- Personnel safety Cat 4, PL e acc. to EN ISO 13849-1:2008
- ■Type 4 according to IEC 61496-1,-2
- ■SIL 3 to IEC 61508

Wiring diagram



Functional principle

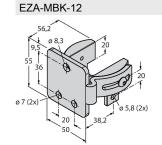
The high-resolution safety light screen for personnel protection consists of an emitter and a receiver. The system is optically synchronized, making the wiring between emitter and receiver redundant. The receiver's safety switching outputs are directly connected to a load relay and trigger an immediate stop of the dangerous machine cycle. Personnel safety degree type 4 acc. to IEC 61496 is fulfilled through 2 channel monitoring of the switching device and the multiple-redundant construction with mutual processor control.

Technical data

Electrical connection	Connector, M12 × 1
Number of cores	5
Ambient temperature	0+50 °C
Protection class	IP65
Power-on indication	LED, Green
Tests/approvals	
Vibration resistance	10-55 Hz at 0.35 mm
Shock test	10 g at 16 ms (6000 cycles)
Approvals	CE, cULus listed

Accessories

EZA-MBK-11	3071470
29,2 12,7 38,2 63,2 60°	Mounting bracket, steel, black- finished, for EZ-ARRAY and EZ- SCREEN standard and cascade 14 & 30 mm



Mounting bracket, steel, blackfinished, for EZ-ARRAY and EZ-SCREEN standard and cascade 14 & 30 mm

3071756

EZA-MBK-20
Ø 4,8 Ø 58 Ø 58 Ø 58 Ø 58 Ø 59 Ø 59 Ø 59 Ø 5

3072587 Mounting bracket, steel, blackfinished, for EZ-ARRAY and EZ-SCREEN standard 14 & 30 mm

Accessories

Dimension drawing	Туре	ID	
#15 M321	QDE-515D	3070880	Connection cable for safety light screens, PVC, yellow, length 4.57 m, female connection, M12 x 1, 5-pin
	QDE-525D	3070881	Connection cable, PVC, yellow, length: 2.44 m, female M12 x 1 - male M12, 8-pin
#145 MI2+1	QDE-550D	3070882	Connection cable for safety light screens, PVC, yellow, length 15.3 m, female connection, M12 x 1, 5-pin
	QDE-575D	3071464	Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1, 5-pin



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Dimension drawing	Туре	ID	
a 145. M32 e 1	QDE-5100D	3071465	Connection cable for safety light screens, PVC, yellow, length 30.5 m, female connection, M12 x 1, 5-pin
	DEE2R-51D	3072333	Connection cable, PVC, yellow, length: 0.31 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-53D	3072334	Connection cable, PVC, yellow, length: 0.91 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-58D_	3072636	Connection cable, PVC, yellow, length: 2.44 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-515D	3072335	Connection cable, PVC, yellow, length: 4.57 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-525D	3072336	Connection cable, PVC, yellow, length: 7.62 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-550D	3072337	Connection cable, PVC, yellow, length: 15.2 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-575D	3072338	Connection cable, PVC, yellow, length: 22.9 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-5100D	3072339	Connection cable, PVC, yellow, length: 30.5 m, female M12 x 1 - male M12 x 1, 5-pin
	DEE2R-58D	3094307	Connection cable, PVC, yellow, length: 2.44 m, M12 × 1 female connector, 5-pin, on M12 × 1 male connector, 5-pin