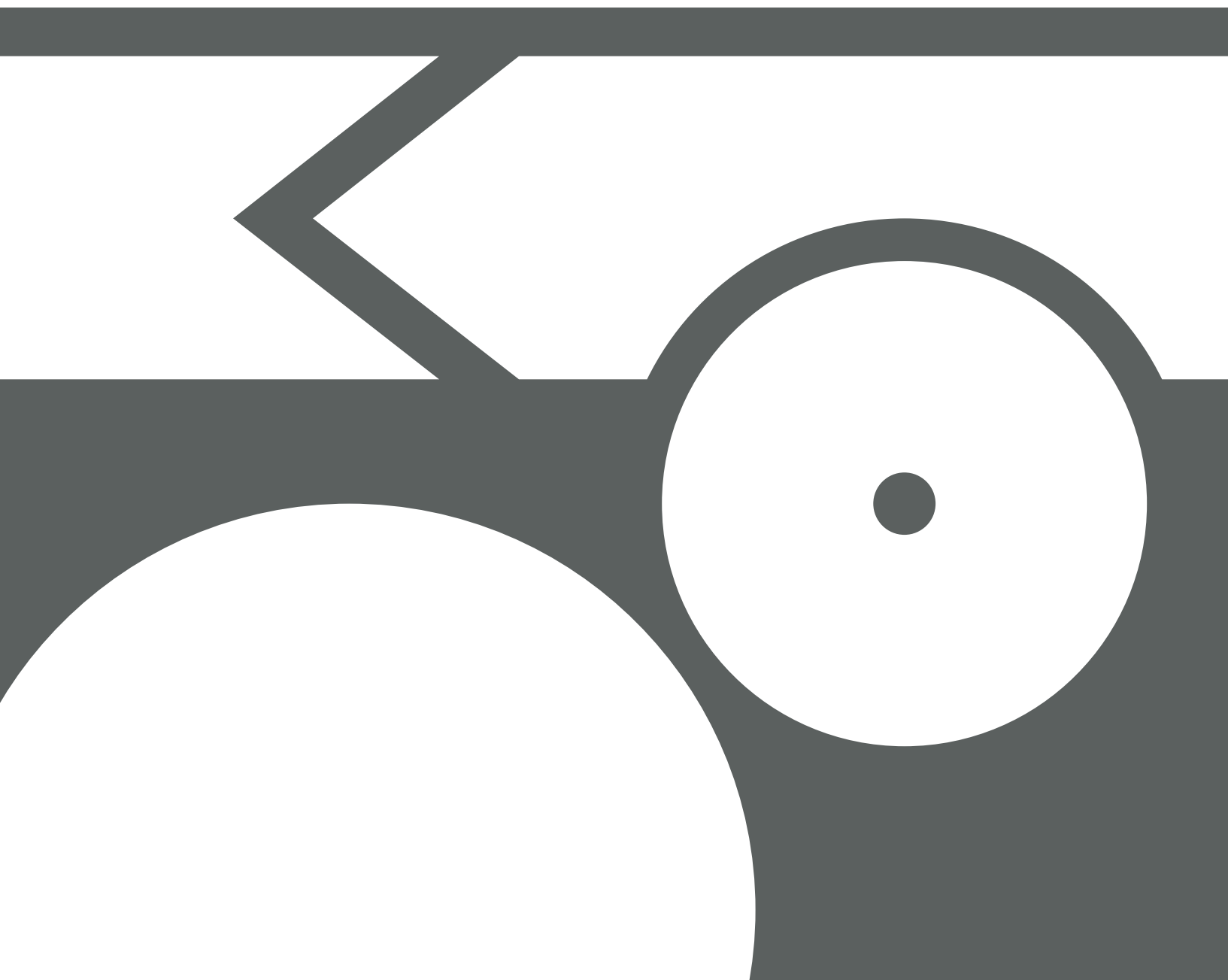


Parts Catalog



Mounting Set for 32 × 16 × 12 mm
Part Number BEF-SET-01

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



– Illustration similar –

Mounting Set for 81 × 75 × 34 mm
Part Number BEF-SET-03

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece

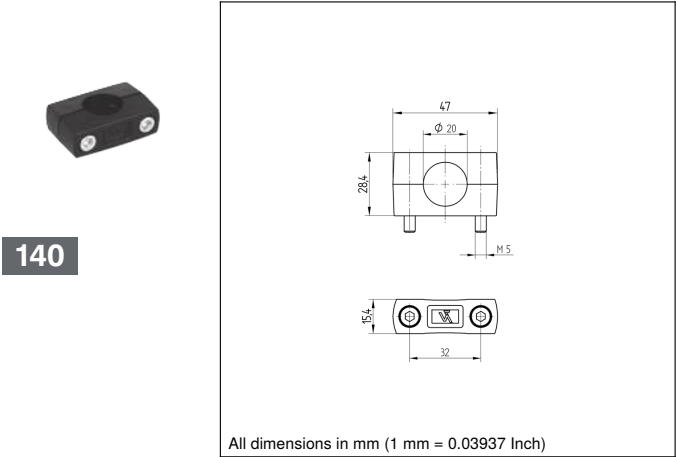


– Illustration similar –

Mounting Clamp for Ø 20 mm
Part Number BEF-SET-05

Mechanical Data

Material	Plastic
Packaging unit	1 Piece



Mounting Set for 54,5 × 27 × 16 mm, 75 × 33 × 18 mm and 50 × 50 × 20 mm
Part Number BEF-SET-02

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



– Illustration similar –

Mounting Set for 54,5 × 27 × 16 mm
Part Number BEF-SET-04

Mechanical Data

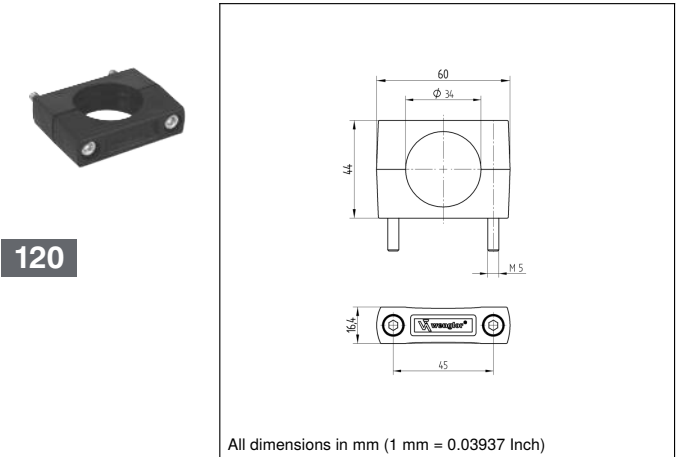
Material	Steel zinc-plated; CuZn, nickel-plated
Packaging unit	1 Piece



Mounting Clamp for Ø 34 mm
Part Number BEF-SET-06

Mechanical Data

Material	Plastic
Packaging unit	1 Piece



Mounting Set for Reflex Sensor M18 × 1
Part Number BEF-SET-07
Mechanical Data

Material	Plastic; Glass
Packaging unit	1 Piece


Mounting Set for fiber optic cable sensor 54,5 × 27 × 16 mm
Part Number BEF-SET-08
Mechanical Data

Material	Plastic; Steel zinc-plated
Packaging unit	1 Piece


Mounting Set for Fiber Optic Cable Sensors M18 × 1
Part Number BEF-SET-09
Mechanical Data

Material	Plastic
Packaging unit	1 Piece


Mounting Set for Fiber Optic Cable Sensors M18 × 1
Part Number BEF-SET-10
Mechanical Data

Material	Plastic
Packaging unit	1 Piece


Mounting Set for Fiber Optic Cable Sensors M18 × 1
Part Number BEF-SET-11
Mechanical Data

Material	Stainless Steel; Plastic
Packaging unit	1 Piece


Mounting Set for Fiber Optic Cable Sensors M18 × 1
Part Number BEF-SET-13
Mechanical Data

Material	CuZn, nickel-plated; Plastic
Packaging unit	1 Piece



Mounting Set for 50 × 50 × 20 mm and Fork Sensors
Part Number BEF-SET-14

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for analog evaluation unit
Part Number BEF-SET-19

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for 40 × 45 × 62 mm
Part Number BEF-SET-21

Mechanical Data

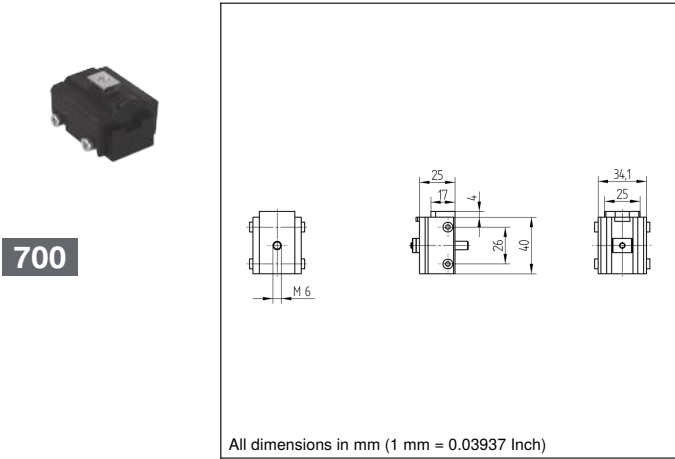
Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Element for 40,2 × 47,1 mm
Part Number BEF-SET-18

Mechanical Data

Material	Aluminum, anodised
Packaging unit	1 Piece



Mounting Set for mounting arm FISZ-BW-01
Part Number BEF-SET-20

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for 16 × 25 × 4 mm and plastic fiber optic cable
Part Number BEF-SET-23

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for 40 × 40 × 70 mm Part Number BEF-SET-27

Mechanical Data

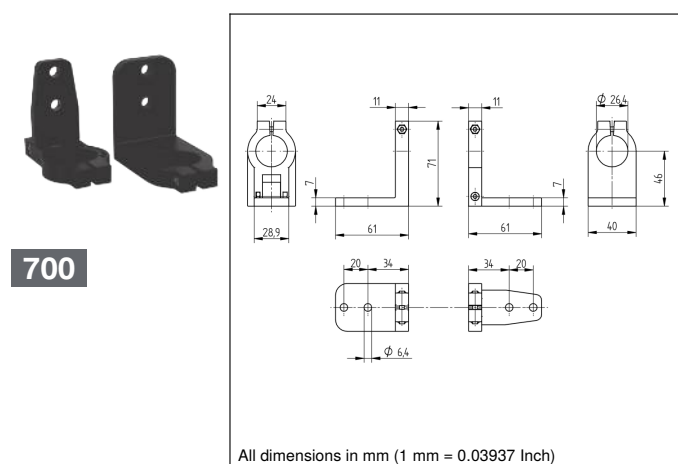
Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for 40,2 × 47,1 mm Part Number BEF-SET-33

Mechanical Data

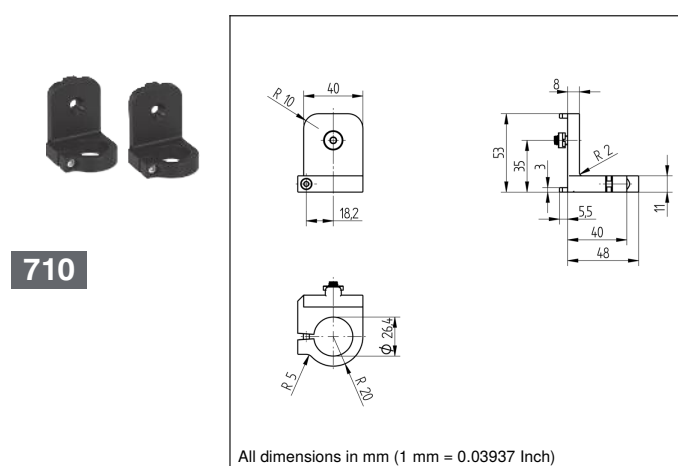
Material	Plastic PA
Packaging unit	2 Pieces



Mounting Set for 40,2 × 47,1 mm in Protection Column Part Number BEF-SET-36

Mechanical Data

Material	Plastic PA
Packaging unit	2 Pieces



Mounting Set Part Number BEF-SET-28

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for 81 × 55 × 30 mm Part Number BEF-SET-34

Mechanical Data

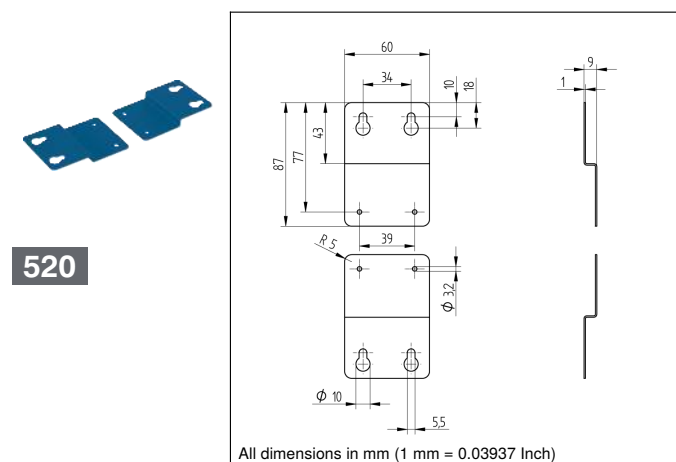
Material	Steel zinc-plated
Packaging unit	1 Piece



Mounting Set for 274 × 193 × 85 mm Part Number BEF-SET-35

Mechanical Data

Mounting Mode	Wall Mounting
Material	Steel Plate
Packaging unit	1 Piece



Mounting Set for 50 × 50 × 30 mm**Part Number BEF-SET-38****Mechanical Data**

Material	Steel zinc-plated
Packaging unit	1 Piece

**Mounting Set for 29 × 60 × 52 mm and 45 × 52 × 87 mm****Part Number BEF-SET-39****Mechanical Data**

Material	Steel zinc-plated
Packaging unit	1 Piece

**Mounting Set for 188/224 × 84 × 35 mm****Part Number BEF-SET-40****Mechanical Data**

Material	Plastic; Steel zinc-plated; Copper tin-plated
Packaging unit	1 Piece

**Mounting Set for 70 × 40 × 22 mm****Part Number BEF-SET-41****Mechanical Data**

Material	Steel zinc-plated
Packaging unit	1 Piece

**Mounting Set for 81 × 55 × 47 mm****Part Number BEF-SET-43****Mechanical Data**

Material	Steel zinc-plated
Packaging unit	1 Piece

**Mounting Set for 75 × 33 × 18 mm****Part Number BEF-SET-42****Mechanical Data**

Material	Stainless Steel
Packaging unit	1 Piece

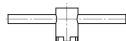


Mounting Set for 50 × 50 × 20 mm
Part Number BEF-SET-44
Mechanical Data

Material	Plastic
Packaging unit	2 Pieces


Adjustment Key for YO99_
Part Number E2L
Mechanical Data

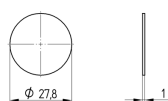
Material	Aluminum
Packaging unit	1 Piece



All dimensions in mm (1 mm = 0.03937 Inch)

Glass Disk for Fiber Optic Cable Sensors M30 × 1
Part Number GS2
Mechanical Data

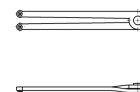
Material	Glass
Packaging unit	1 Piece



All dimensions in mm (1 mm = 0.03937 Inch)

Adjustment Key for ZD600_/ZW600_
Part Number E1L
Mechanical Data

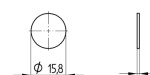
Material	Metal
Packaging unit	1 Piece



All dimensions in mm (1 mm = 0.03937 Inch)

Glass Disk for Fiber Optic Cable Sensors M18 × 1
Part Number GS1
Mechanical Data

Material	Glass
Packaging unit	1 Piece

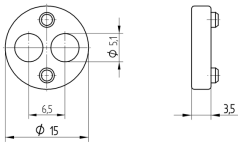


All dimensions in mm (1 mm = 0.03937 Inch)

Adjustment Disk for Fiber Optic Cable Sensors M18 × 1
Part Number JU2

Mechanical Data

Material	Plastic
Packaging unit	1 Piece



All dimensions in mm (1 mm = 0.03937 Inch)

Optical Fiber Plastic
Part Number K51

Optical Data

Fiber Core Diameter	1 mm
Fiber Core	PMMA
Fiber	Step Index
Opening Angle	55 °

Mechanical Data

Temperature Range	-40...85 °C
Bending Radius	30 mm
Fiber Optic Length	10 m
Material Jacket	PE (black)
Diameter Jacket	2,2 mm
Packaging unit	1 Piece



Optical Fiber Plastic
Part Number K50

Optical Data

Fiber Core Diameter	1 mm
Fiber Core	PMMA
Fiber	Step Index
Opening Angle	55 °

Mechanical Data

Temperature Range	-40...85 °C
Bending Radius	30 mm
Fiber Optic Length	10 m
Material Jacket	PE (black)
Diameter Jacket	2,2 mm
Packaging unit	1 Piece



Optical Fiber Plastic
Part Number K53

Optical Data

Fiber Core Diameter	0,5 mm
Fiber Core	PMMA
Fiber	Step Index
Opening Angle	55 °

Mechanical Data

Temperature Range	-40...85 °C
Bending Radius	15 mm
Fiber Optic Length	10 m
Material Jacket	PE (black)
Diameter Jacket	1 mm
Packaging unit	1 Piece



Replacement Lamp for FW01

Part Number L1

Optical Data

Service Life (T = +25 °C)	2000 h
Packaging unit	1 Piece

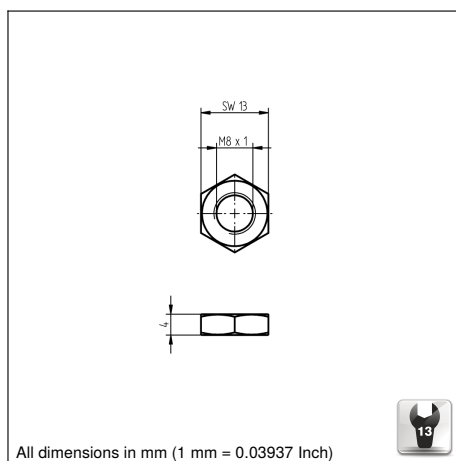


Hex-Nut M8 × 1

Part Number MUTTER-M8-E001

Mechanical Data

Material	CuZn, nickel-plated
Packaging unit	2 Pieces

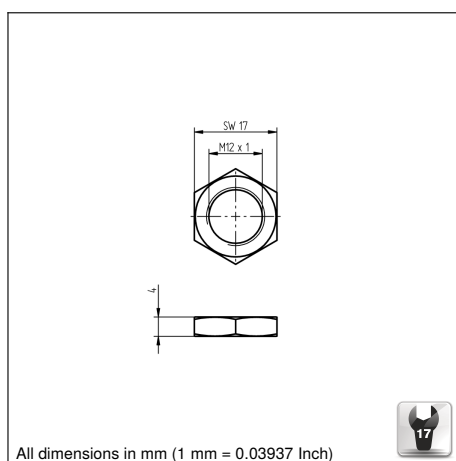


Hex-Nut M12 × 1

Part Number MUTTER-M12-E001

Mechanical Data

Material	CuZn, nickel-plated
Packaging unit	2 Pieces

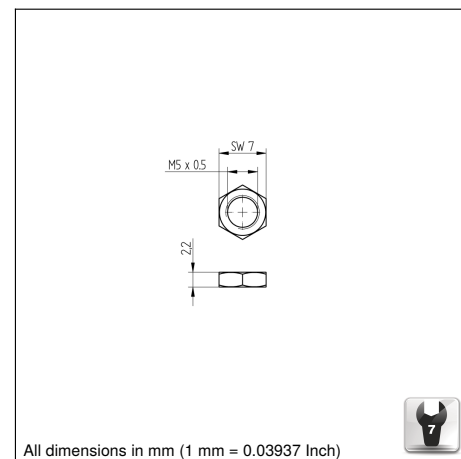


Hex-Nut M5 × 0,5

Part Number MUTTER-M5-E003

Mechanical Data

Material	Stainless Steel
Packaging unit	2 Pieces

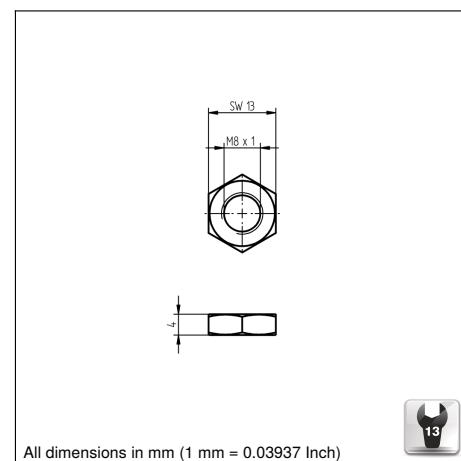


Hex-Nut M8 × 1

Part Number MUTTER-M8-E002

Mechanical Data

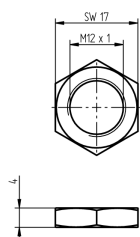
Material	Plastic
Packaging unit	2 Pieces



Hex-Nut M12 × 1
Part Number MUTTER-M12-E002

Mechanical Data

Material	Plastic
Packaging unit	2 Pieces



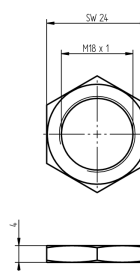
All dimensions in mm (1 mm = 0.03937 Inch)



Hex-Nut M18 × 1
Part Number MUTTER-M18-E002

Mechanical Data

Material	Plastic
Packaging unit	2 Pieces



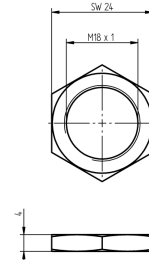
All dimensions in mm (1 mm = 0.03937 Inch)



Hex-Nut M18 × 1
Part Number MUTTER-M18-E001

Mechanical Data

Material	CuZn, nickel-plated
Packaging unit	2 Pieces



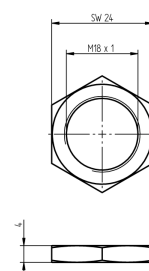
All dimensions in mm (1 mm = 0.03937 Inch)



Hex-Nut M18 × 1
Part Number MUTTER-M18-E003

Mechanical Data

Material	Stainless Steel V2A
Packaging unit	2 Pieces



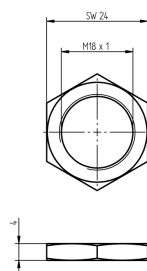
All dimensions in mm (1 mm = 0.03937 Inch)



Hex-Nut M18 × 1
Part Number MUTTER-M18-E012
Mechanical Data

Material Plastic

Packaging unit 1 Piece

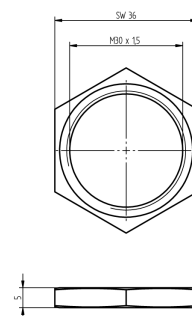


All dimensions in mm (1 mm = 0.03937 Inch)


Hex-Nut M30 × 1,5
Part Number MUTTER-M30-E001
Mechanical Data

Material CuZn, nickel-plated

Packaging unit 2 Pieces

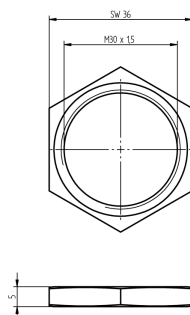


All dimensions in mm (1 mm = 0.03937 Inch)


Hex-Nut M30 × 1,5
Part Number MUTTER-M30-E002
Mechanical Data

Material Plastic

Packaging unit 2 Pieces

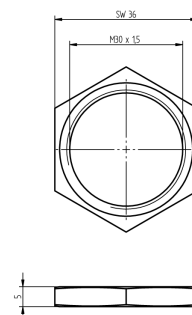


All dimensions in mm (1 mm = 0.03937 Inch)


Hex-Nut M30 × 1,5
Part Number MUTTER-M30-E003
Mechanical Data

Material Stainless Steel

Packaging unit 2 Pieces



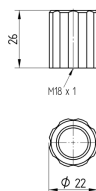
All dimensions in mm (1 mm = 0.03937 Inch)



Cap Nut M18 × 1
Part Number UEM18KU-01

Mechanical Data

Height	26 mm
Material	Plastic PBT
Packaging unit	10 Pieces

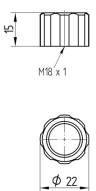


All dimensions in mm (1 mm = 0.03937 Inch)

Cap Nut M18 × 1
Part Number UEM18KU-02

Mechanical Data

Height	15 mm
Material	Plastic PBT
Packaging unit	10 Pieces

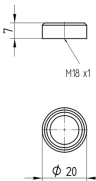


All dimensions in mm (1 mm = 0.03937 Inch)

Cap Nut M18 × 1
Part Number UEM18ME-01

Mechanical Data

Height	7 mm
Material	CuZn, nickel-plated
Packaging unit	10 Pieces

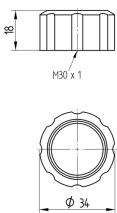


All dimensions in mm (1 mm = 0.03937 Inch)

Cap Nut M30 × 1,5
Part Number UEM30KU-01

Mechanical Data

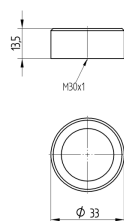
Height	18 mm
Material	Plastic PBT
Packaging unit	10 Pieces



All dimensions in mm (1 mm = 0.03937 Inch)

Cap Nut M30 × 1,5
Part Number UEM30ME-01
Mechanical Data

Height	13,5 mm
Material	CuZn, nickel-plated
Packaging unit	10 Pieces



All dimensions in mm (1 mm = 0.03937 Inch)

Valve Accessory Cap Nut for valve VENTIL-K27
Part Number VENTILZUBE-K10
Mechanical Data

Material	Plastic
Packaging unit	1 Piece


Plastic Washer
Part Number Z0001
Mechanical Data

Diameter	4,3 mm
Material	Plastic
Packaging unit	2 Pieces

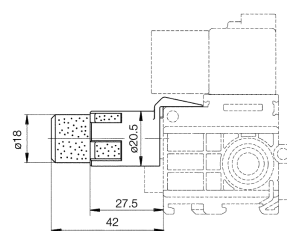

Valve Accessory Sound Absorber
Part Number VENTILZUBE-K03
Electrical Data

Temperature Range	-25...60 °C
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Pneumatic Solenoid Valve Unit

Operating Pressure	0...10 bar
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Packaging unit	1 Piece
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All dimensions in mm (1 mm = 0.03937 Inch)

Valve Accessory Sound Absorber for valve VENTIL-K27
Part Number VENTILZUBE-K09
Mechanical Data

Material	Sintered Bronze
Packaging unit	1 Piece


Indication Label ATEX
Part Number Z0002

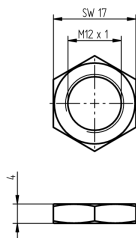
Packaging unit	1 Piece
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Hex-Nut M12 × 1
Part Number Z0004

Mechanical Data

Material	Stainless Steel 316L
Packaging unit	2 Pieces



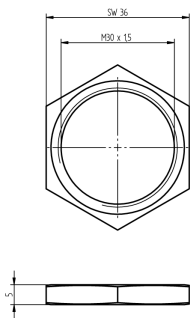
All dimensions in mm (1 mm = 0.03937 Inch)



Hex-Nut M30 × 1,5
Part Number Z0006

Mechanical Data

Material	Stainless Steel 316L
Packaging unit	2 Pieces



All dimensions in mm (1 mm = 0.03937 Inch)



Sealing Ring for InoxLock Set
Part Number Z0013

Mechanical Data

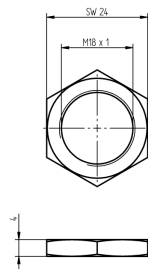
Material	Silicone (FDA)
Packaging unit	10 Pieces



Hex-Nut M18 × 1
Part Number Z0005

Mechanical Data

Material	Stainless Steel 316L
Packaging unit	2 Pieces



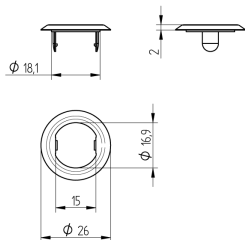
All dimensions in mm (1 mm = 0.03937 Inch)



Mounting Console for M18 × 1 plastic
Part Number Z0008

Mechanical Data

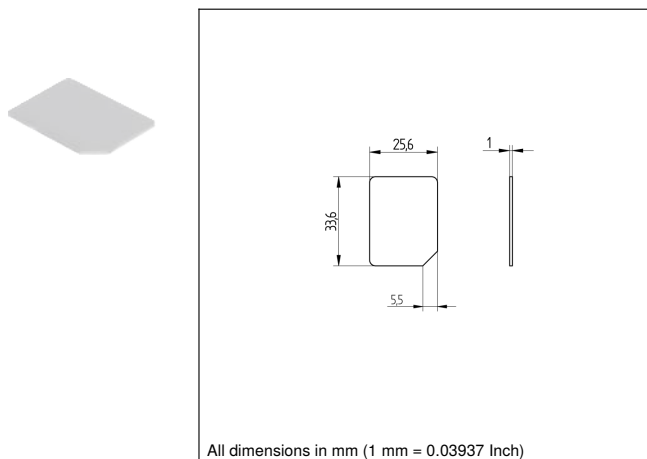
Material	Plastic
Packaging unit	10 Pieces



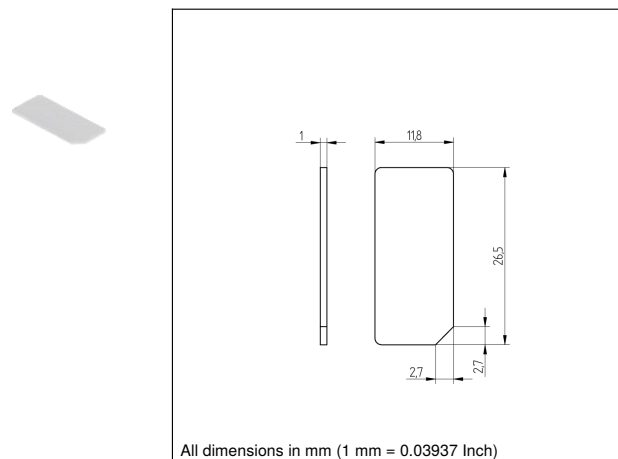
All dimensions in mm (1 mm = 0.03937 Inch)

Screening Grid for ZST-NN-02
Part Number Z0017
Mechanical Data

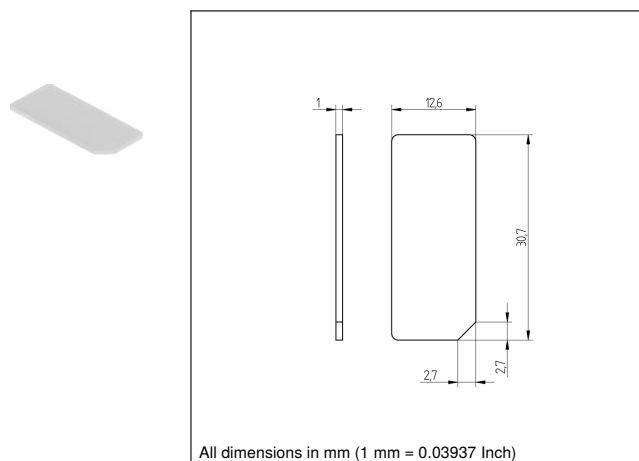
Material	PMMA (coated)
Packaging unit	10 Pieces


Screening Grid for ZSM-NN-02
Part Number Z0018
Mechanical Data

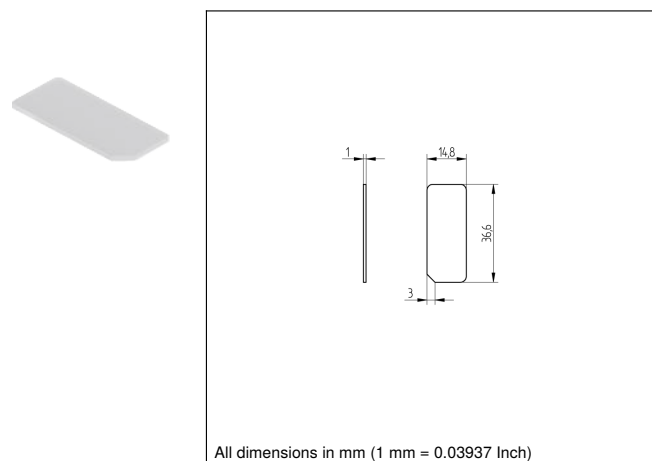
Material	PMMA (coated)
Packaging unit	10 Pieces


Screening Grid for ZSN-NN-02
Part Number Z0019
Mechanical Data

Material	PMMA (coated)
Packaging unit	10 Pieces

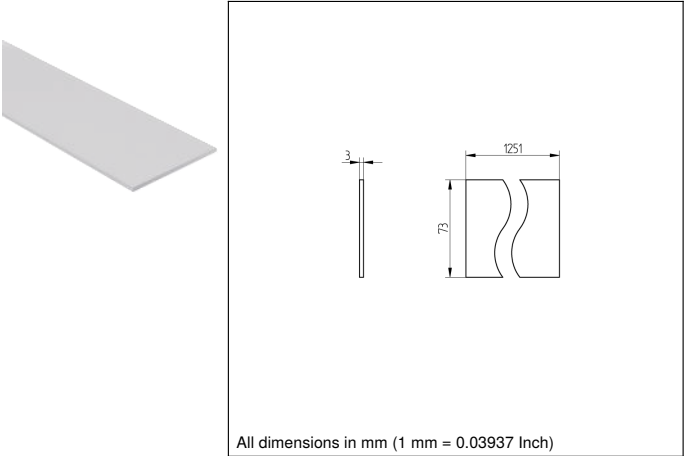

Screening Grid for ZSP-NN-02
Part Number Z0020
Mechanical Data

Material	PMMA (coated)
Packaging unit	10 Pieces



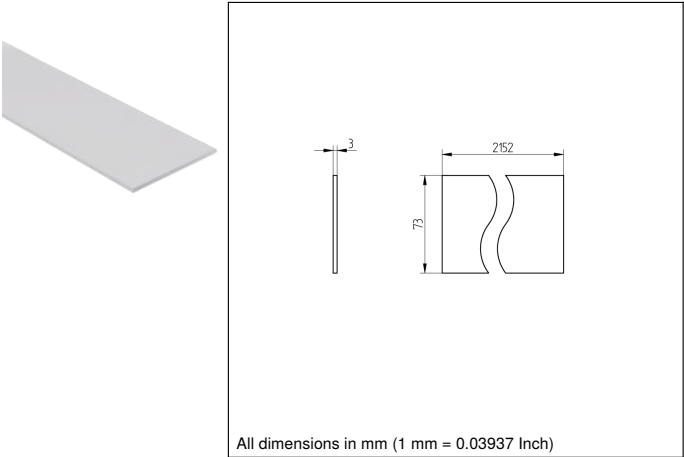
Screening Grid for SZ000EG125NN01
Part Number Z0030

Mechanical Data	
Material	Polycarbonate
Length	930 mm
Packaging unit	2 Pieces



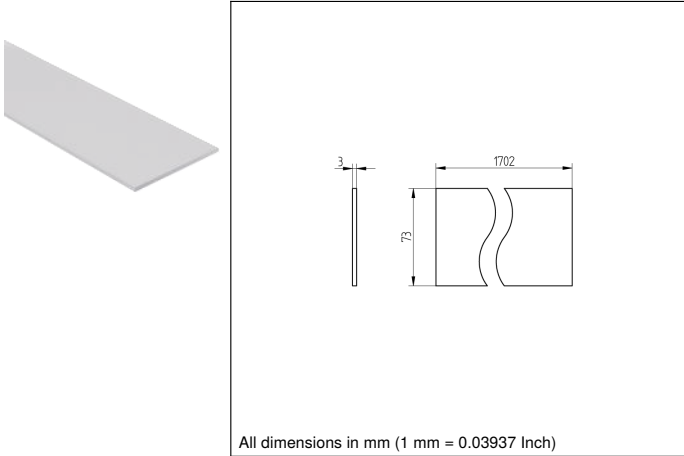
Screening Grid for SZ000EG215NN01
Part Number Z0032

Mechanical Data	
Material	Polycarbonate
Length	1830 mm
Packaging unit	2 Pieces



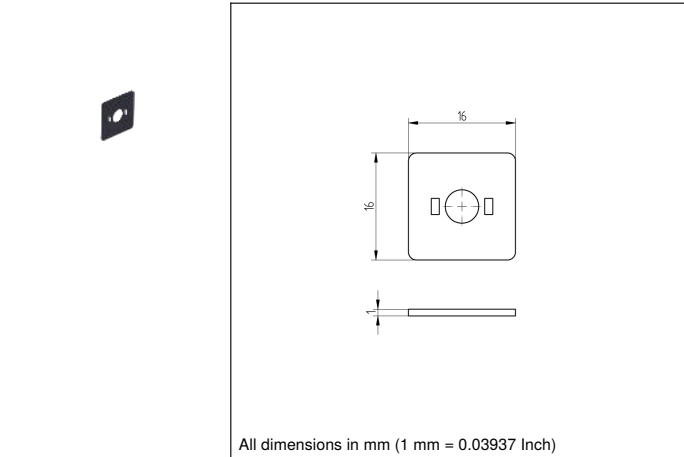
Screening Grid for SZ000EG170NN01
Part Number Z0031

Mechanical Data	
Material	Polycarbonate
Length	1380 mm
Packaging unit	2 Pieces



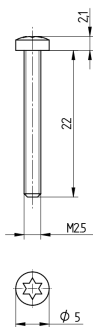
Shaped Packing for 16 × 16 × 1 valve OPT
Part Number Z0034

Mechanical Data	
Material	NBR
Packaging unit	10 Pieces



Screw
Part Number Z0036
Mechanical Data

Length	22 mm
Material	Steel zinc-plated
Packaging unit	20 Pieces



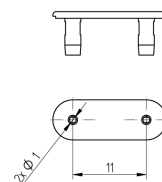
All dimensions in mm (1 mm = 0.03937 Inch)

Rubber Seal for ZSN-NN-02
Part Number Z0042
Mechanical Data

Material	NBR
Packaging unit	10 Pieces


Housing LWL Adapter
Part Number Z0037
Mechanical Data

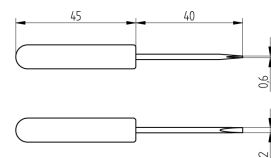
Material	Plastic
Packaging unit	10 Pieces



All dimensions in mm (1 mm = 0.03937 Inch)

Screw Driver
Part Number Z0039

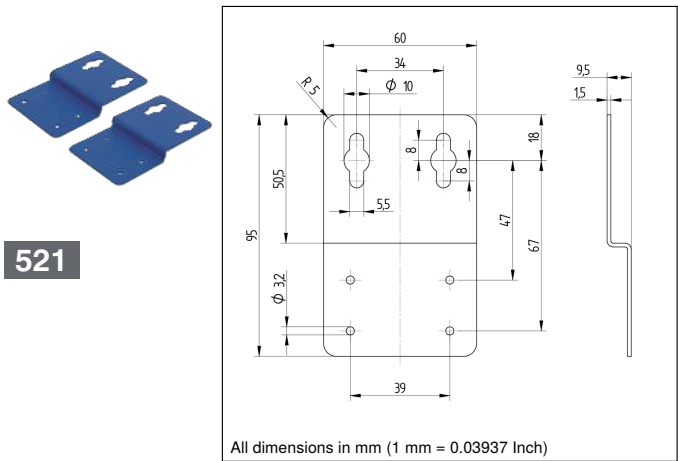
Packaging unit	10 Pieces
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All dimensions in mm (1 mm = 0.03937 Inch)

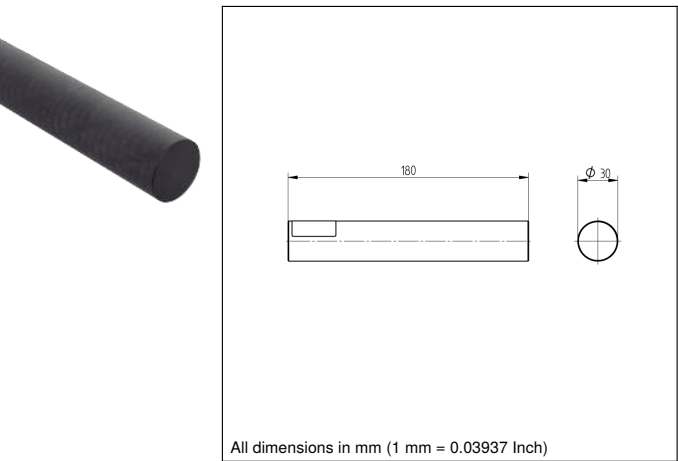
Mounting Set
Part Number ZB1E001

Mechanical Data	
Mounting Mode	Wall Mounting
Material	Steel Plate
Packaging unit	1 Piece



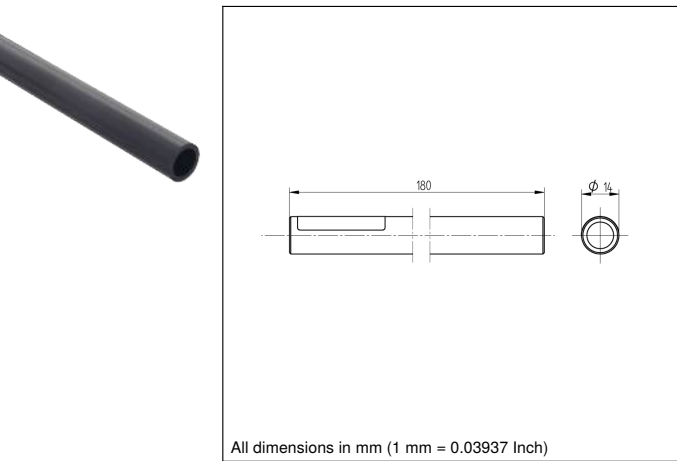
Testing Stick for Safety Technology
Part Number ZEMG004

Mechanical Data	
Material	PVC
Diameter	30 mm
Packaging unit	1 Piece



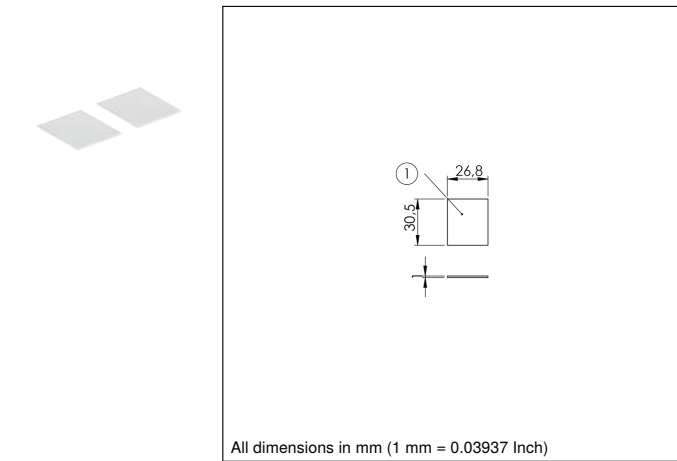
Testing Stick for Safety Technology
Part Number ZEMG003

Mechanical Data	
Material	Aluminum, anodised
Diameter	14 mm
Packaging unit	1 Piece



5 pairs of protective discs for MSL
Part Number ZLSE001

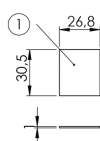
Mechanical Data	
Material	Plastic
Coated Optics	yes
Packaging unit	5 pairs



5 pairs of protective discs for MLSL Part Number ZLSE002

Mechanical Data

Material	Glass
Coated Optics	yes
Packaging unit	5 pairs

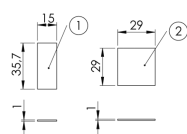


All dimensions in mm (1 mm = 0.03937 Inch)

5 pairs of protective discs for ZLWS005 Part Number ZLWE003

Mechanical Data

Material	Plastic
Coated Optics	yes
Packaging unit	5 pairs



All dimensions in mm (1 mm = 0.03937 Inch)

Mounting Set for MLWL Part Number ZLWE001

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece



– Illustration similar –

Mounting Set for MLWL Part Number ZLWE002

Mechanical Data

Material	Steel zinc-plated
Packaging unit	1 Piece

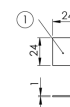


– Illustration similar –

5 pairs of protective discs for ZLWS002 Part Number ZLWE004

Mechanical Data

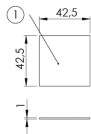
Material	Glass
Coated Optics	yes
Packaging unit	5 pairs



All dimensions in mm (1 mm = 0.03937 Inch)

5 pairs of protective discs for ZLWS003
Part Number ZLWE005

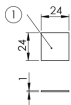
Mechanical Data	
Material	Glass
Coated Optics	yes
Packaging unit	5 pairs



All dimensions in mm (1 mm = 0.03937 Inch)

5 pairs of protective discs for ZLWS002
Part Number ZLWE007

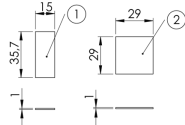
Mechanical Data	
Material	Plastic
Coated Optics	yes
Packaging unit	5 pairs



All dimensions in mm (1 mm = 0.03937 Inch)

5 pairs of protective discs for ZLWS005
Part Number ZLWE006

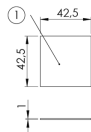
Mechanical Data	
Material	Glass
Coated Optics	yes
Packaging unit	5 pairs



All dimensions in mm (1 mm = 0.03937 Inch)

5 pairs of protective discs for ZLWS003
Part Number ZLWE008

Mechanical Data	
Material	Plastic
Coated Optics	yes
Packaging unit	5 pairs



All dimensions in mm (1 mm = 0.03937 Inch)

Mounting Set for Cooling Unit Part Number ZLWE009

Mechanical Data

Material	Stainless Steel V2A
Packaging unit	1 Piece



Mounting Set for Cooling Unit Part Number ZLWE010

Mechanical Data

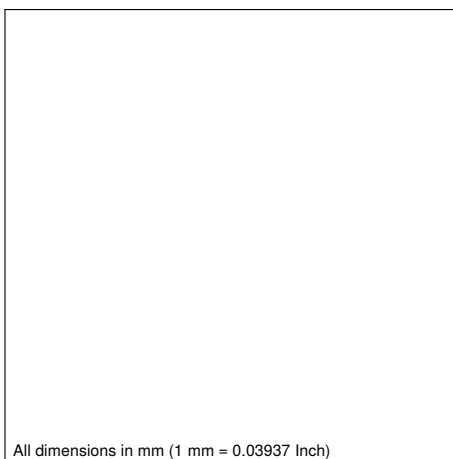
Material	Stainless Steel V2A
Packaging unit	4 Pieces



Mounting Clamp for MLWL Part Number ZLWE011

Scope of delivery	1 Piece
-------------------	---------

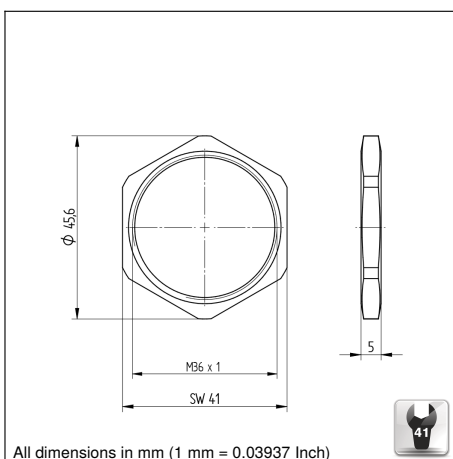
Product picture
currently
not available



Hex-Nut M36 × 1 Part Number ZNNE002

Mechanical Data

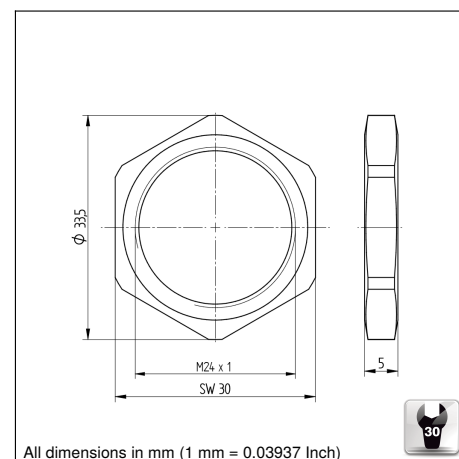
Material	Stainless Steel V2A
Packaging unit	2 Pieces



Hex-Nut M24 × 1 Part Number ZNNE001

Mechanical Data

Material	Stainless Steel V2A
Packaging unit	2 Pieces



Plastic Washer Part Number ZNNE003

Mechanical Data

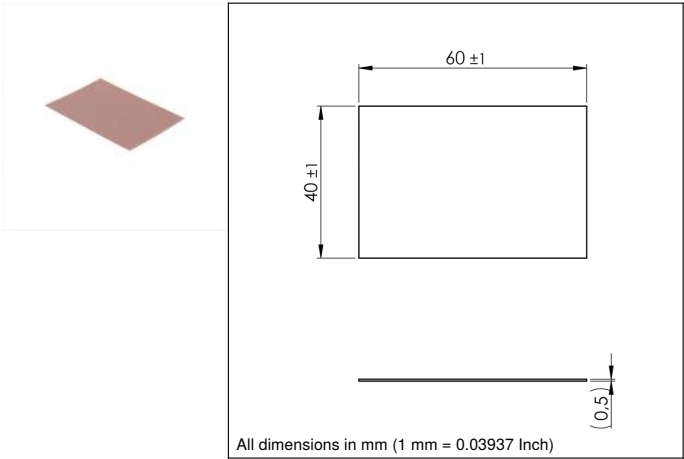
Diameter	5,3 mm
Material	Plastic
Packaging unit	4 Pieces



Heat conducting foil for ZLWS007
Part Number ZNNE004

Mechanical Data

Material	Hala Gap-Filler TGF-HSS500-NS
Thermal conductivity	2,0 W/m K
Packaging unit	1 Piece



Replacement disk for FIS-6801
Part Number ZNNG015

Mechanical Data

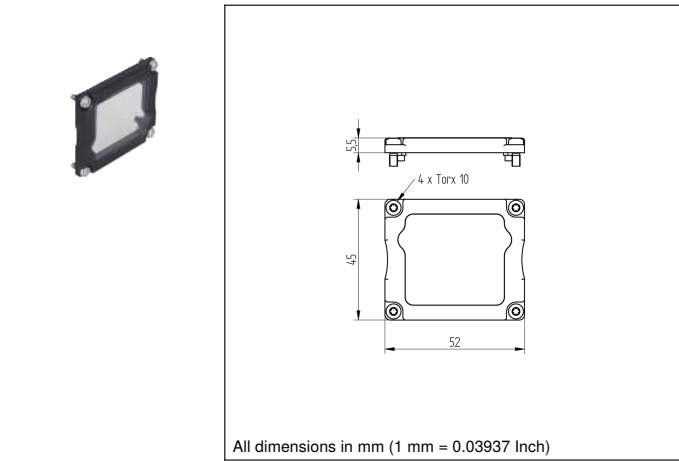
Material	Plastic
Packaging unit	1 Piece



Disk for B50/C50
Part Number ZNNG012

Mechanical Data

Material	PMMA
Packaging unit	1 Piece



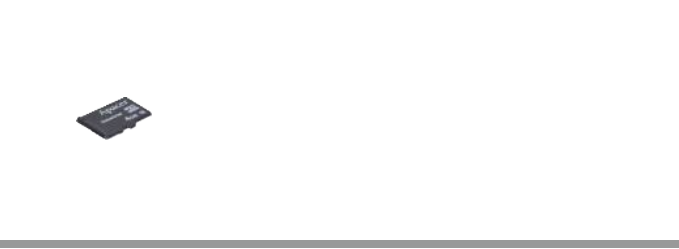
MicroSD card
Part Number ZNNG013

Electrical Data

Temperature Range	-25...85 °C
Capacity range	4 GB

Mechanical Data

Material	Plastic
Packaging unit	1 Piece

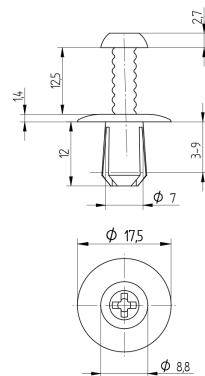


Mounting Set for ZPTX001

Part Number ZPTE001

Mechanical Data

Diameter	7 mm
Plate thickness, mounting anchors	3...9 mm
Material	Plastic
Packaging unit	2 Pieces



All dimensions in mm (1 mm = 0.03937 Inch)

Inductive Sensor

for extreme Temperature Ranges

25 mm

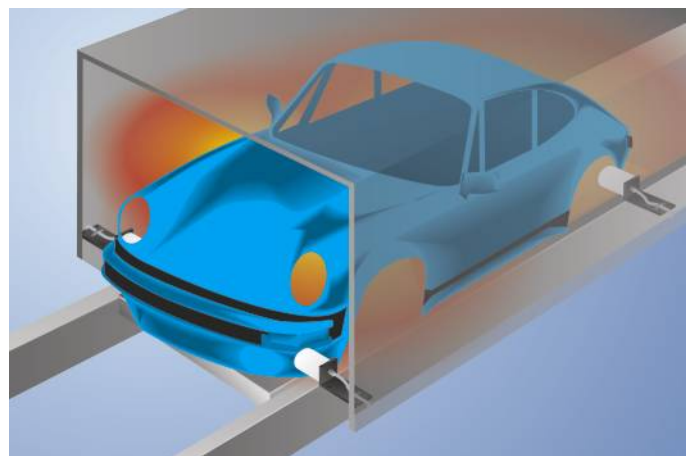
60 × 152 × 60 mm

Range
non-flush



- Long service life of up to 100 000 hours
- Quickly interchangeable sensor head

The sensors consist of a sensor head and an analysis module, and are laid out for use in very hot work environments. Together with unparalleled service life in hot surroundings, large switching distances assure maximum system availability. Easily interchangeable sensor heads with numerous standard cable lengths are additionally available as separate replacement parts. Switching distance can be quickly adjusted via a potentiometer within a temperature range of -60 to 450° C.



Technical Data

Inductive Data

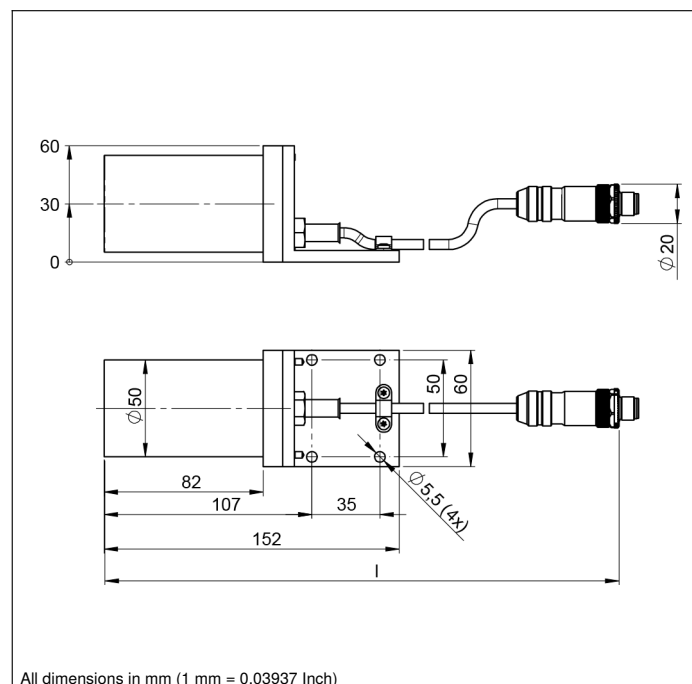
Switching Distance	25 mm
Correction Factors V2A/CuZn/Al	1,27/1,29/1,33
Mounting	non-flush
Mounting A/B/C/D in mm	95/200/40/85

Electrical Data

Sensor head temperature range	-60...450 °C
Protection Class	III
Service Life	100000 h

Mechanical Data

Sensor head material	Ceramic
Degree of protection, sensor head	IP60
Connection	M12 × 1; 4-pin



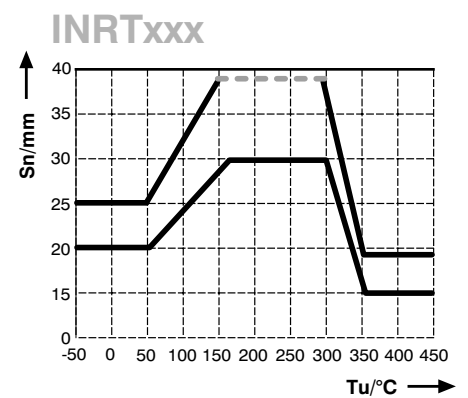


Plug Version

Part Number	Plug Version			
	INRT004	INRT008	INRT010	INRT012
Cable Length	5 m	10 m	15 m	20 m

Connection Diagrams page 54 / System Components page 2

Mounting



Inductive Sensor

for extreme Temperature Ranges

25 mm

42,7 × 112 × 41,2 mm

Range
non-flush

Technical Data

Inductive Data

Switching Distance	25 mm
Correction Factors V2A/CuZn/Al	0,81/0,56/0,52
Mounting	non-flush
Mounting A/B/C/D in mm	70/90/50/25

Electrical Data

Sensor head temperature range	-10...250 °C
Protection Class	III
Service Life	100000 h

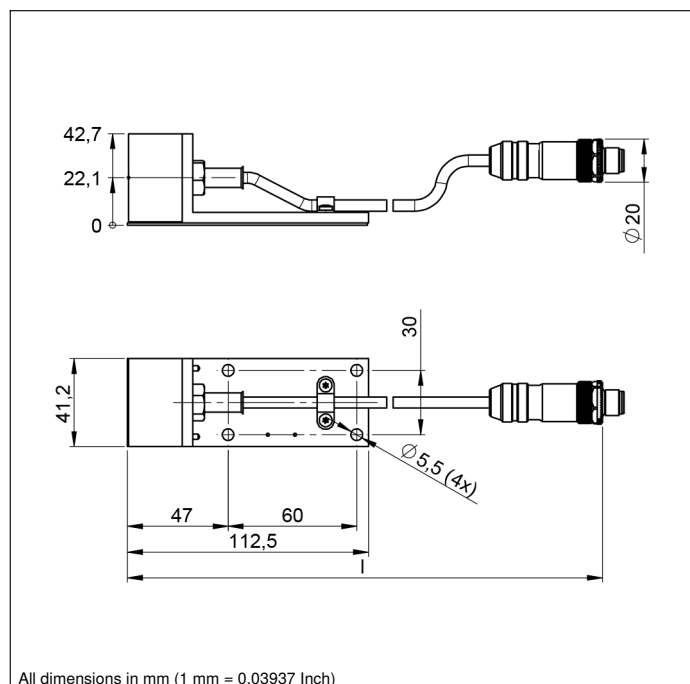
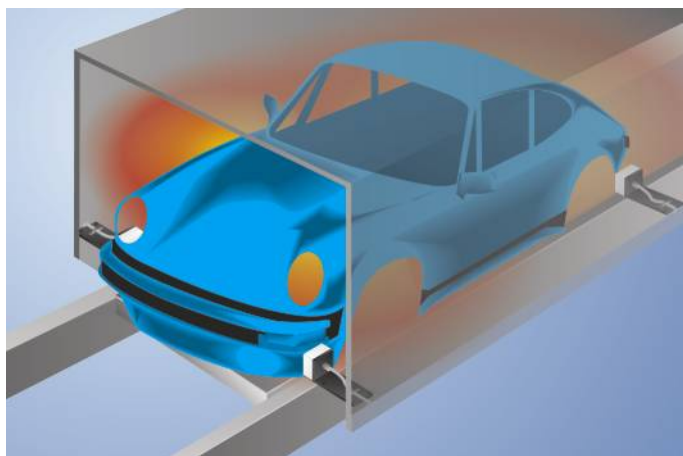
Mechanical Data

Sensor head material	PTFE (FDA)
Degree of protection, sensor head	IP60
Connection	M12 × 1; 4-pin
PWIS-free	yes



- Long service life of up to 100 000 hours
- Quickly interchangeable sensor head

The sensors consist of a sensor head and an analysis module, and are laid out for use in very hot work environments. Together with unparalleled service life in hot surroundings, large switching distances assure maximum system availability. Easily interchangeable sensor heads with numerous standard cable lengths are additionally available as separate replacement parts. The maintenance function prevents unscheduled system downtime. Thanks to unique, patented technology (DE202011001009), the sensor indicates that it should be replaced during the next scheduled maintenance before its service life expires. Furthermore, the sensor fulfills the DESINA diagnostics function a well.



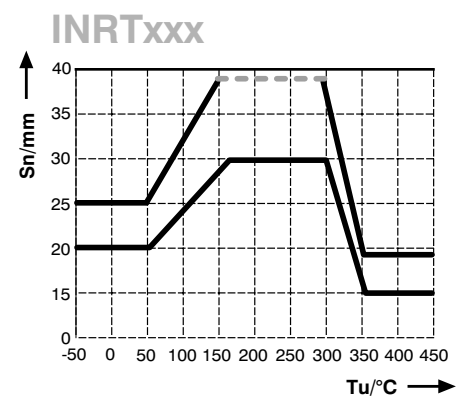


Plug Version

Part Number	Plug Version			
	INTT004	INTT008	INTT010	INTT012
Cable Length	5 m	10 m	15 m	20 m

Connection Diagrams page 54 / System Components page 2

Mounting



Inductive Sensor

for extreme Temperature Ranges

40 mm

62 × 113,5 × 62 mm

Range
non-flush



Technical Data

Inductive Data

Switching Distance	40 mm
Correction Factors V2A/CuZn/Al	0,81/0,56/0,52
Mounting	non-flush
Mounting A/B/C/D in mm	70/120/80/25

Electrical Data

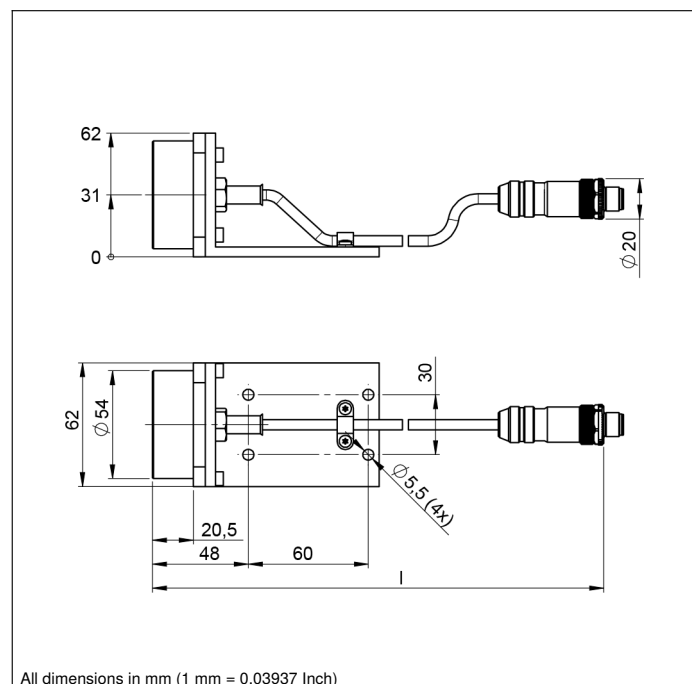
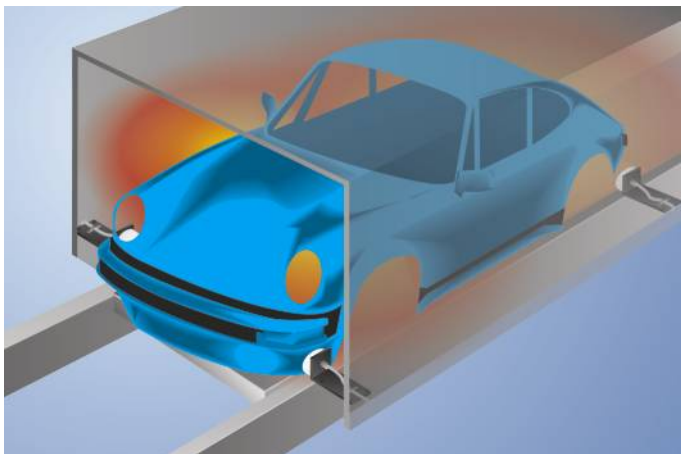
Sensor head temperature range	-10...250 °C
Protection Class	III
Service Life	100000 h

Mechanical Data

Sensor head material	PTFE (FDA)
Degree of protection, sensor head	IP60
Connection	M12 × 1; 4-pin
PWIS-free	yes

- Long service life of up to 100 000 hours
- Quickly interchangeable sensor head

The sensors consist of a sensor head and an analysis module, and are laid out for use in very hot work environments. Together with unparalleled service life in hot surroundings, large switching distances assure maximum system availability. Easily interchangeable sensor heads with numerous standard cable lengths are additionally available as separate replacement parts. The maintenance function prevents unscheduled system downtime. Thanks to unique, patented technology (DE202011001009), the sensor indicates that it should be replaced during the next scheduled maintenance before its service life expires. Furthermore, the sensor fulfills the DESINA diagnostics function a well.



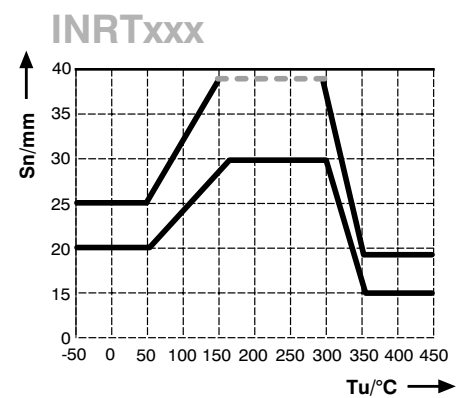


Plug Version

	Part Number	Plug Version			
		INTT104	INTT108	INTT110	INTT112
Cable Length		5 m	10 m	15 m	20 m

Connection Diagrams page 54 / System Components page 2

Mounting



Flow Sensor

0...100 l/min

Range

UniFlow

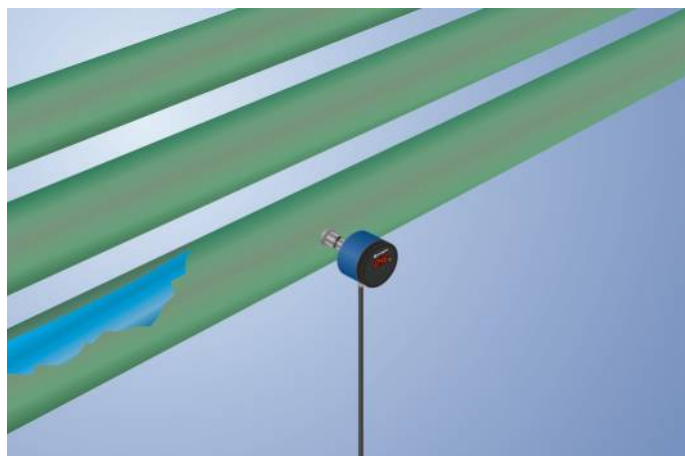


- Display can be switched between flow and medium temperature
- Highest precision of its class
- Measurement independent of flow direction
- Selectable measuring range
- Temperature of the medium: 0 ... 100° C (140° C for 24 hours without current measurement)

Technical Data

Sensor-specific data	
Medium	Water
Measuring error	2 %
Switching Hysteresis	5 %
Temperature gradient	30 K
Response time in case of temperature jump	10 s
Environmental conditions	
Temperature of medium	0...100 °C
Temperature of the medium, short-term	140 °C
Ambient temperature	-20...70 °C
Mechanical Strength	60 bar
EMC	DIN EN 60947-5-9
Shock resistance per DIN IEC 68-2-27	50 g / 11 ms
Vibration resistance per DIN IEC 60068-2-6	20 g (10...2000 Hz)
Electrical Data	
Supply Voltage	16...32 V DC
Current Consumption (U _b = 24 V)	60 mA
Switching Outputs	1
Analog Output	4...20 mA Flow / Temp
Response Time	1...5 s
Switching Output/Switching Current	< 250 mA
Switching Output Voltage Drop	< 2 V
Current Output Load Resistance	< 500 Ohm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Protection Class	III
Mechanical Data	
Setting Method	Menu
Housing Material	PBT; PC; FKM
Material Control Panel	Polyester
Material in contact with media	1.4435; 1.4404; FKM
Degree of Protection	IP67 *
Connection	M12 × 1; 4-pin
Process Connection	Sealing cone M18 × 1,5
Process Connection Length	64 mm
Probe Length	44 mm
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	1194,55 a

wenglor UniFlow flow sensors measure the flow rate of aqueous and oily media in closed piping systems. UniFlow flow sensors are very easy to operate thanks to the integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.



* Tested by wenglor



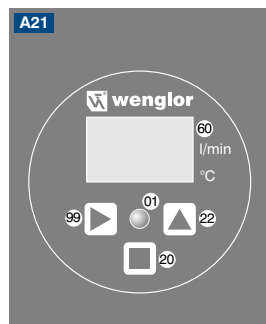
* Tested by wenglör

				Plug Version			
				Part Number	FFAF203	FFAF204	FFAF205
							
Analog output switchable to flow or temperature					●	●	●
PNP NO/NC switchable					●	●	●
Measuring Range					0...35 l/min	0...60 l/min	0...100 l/min
Adjustable Range					0...35 l/min	0...60 l/min	0...100 l/min
Connection Diagram No.					533	533	533
Control Panel No.					A21	A21	A21
Suitable Connection Technology No.					21	21	21
Suitable Mounting Technology No.					900 901	900 901	900 901

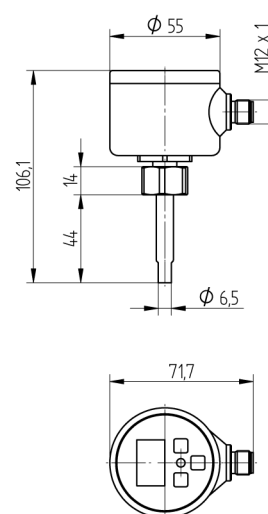
Connection Diagrams page 54 / System Components page 2

The complete product range of flow sensors can be found at www.wenglor.com.
An overview of this can be found in the table of contents.

Ctrl. Panel



01 = Switching Status Indicator 99 = Right button
20 = Enter Button
22 = UP Button
60 = Display



All dimensions in mm (1 mm = 0.03937 Inch)



Safety Light Curtain Type 4

Finger Protection

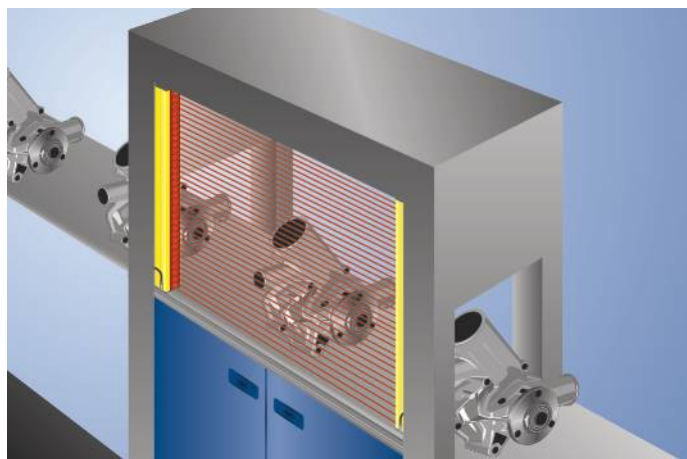
0,25...6 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...6 m
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

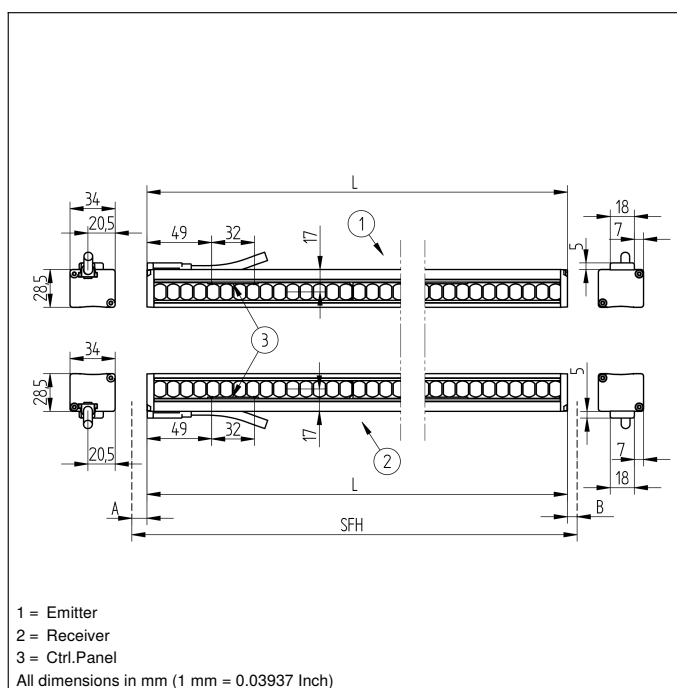
Supply Voltage	19,2...28,8 V DC
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



   				Part Number	Plug Version											
					SEMG531			SEMG631			SEMG532			SEMG632		
Scope of delivery					Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001		
Housing Length (L)					249 mm			249 mm			309 mm			309 mm		
Safety Field Height (SFH)					250 mm			250 mm			310 mm			310 mm		
Wave Length					630 nm						630 nm					
Max. Ambient Light								10000 Lux						10000 Lux		
Sensor Type					Emitter			Receiver			Emitter			Receiver		
Current Consumption (Ub = 24 V)					100 mA			200 mA			100 mA			200 mA		
Response Time								7,6 ms						8,3 ms		
No. Safety Outputs (OSSDs)								2						2		
Safety Output Voltage Drop								< 2,3 V						< 2,3 V		
PNP Safety Output/Switching Current								300 mA						300 mA		
Signal Outputs								1						1		
Signal Output Voltage Drop								< 2,5 V						< 2,5 V		
Signal Output/Switching Current								100 mA						100 mA		
Short Circuit and Overload Protection								yes						yes		
Connection					M12 × 1; 4/5-pin			M12 × 1; 8-pin			M12 × 1; 4/5-pin			M12 × 1; 8-pin		
PFHd								1,60 × E-8 1/h						1,60 × E-8 1/h		
Connection Diagram No.					362			361			362			361		
Control Panel No.					SR4			SR5			SR4			SR5		
Suitable Connection Technology No.					2 35			89			2 35			89		
Suitable Mounting Technology No.					790 810 820			790 810 820			790 810 820			790 810 820		
Finger Protection					yes			yes			yes			yes		
Restart Inhibit								yes						yes		
Safety Operating Mode								yes						yes		
Contactor Monitoring								yes						yes		

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

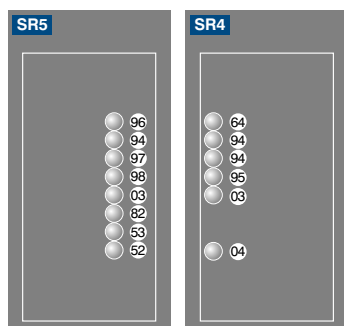
Deflection Mirror Z2UG002

Protection Column with Deflection Mirror SZ000EU125NN01

Protection Column with Screening Grid SZ000EG125NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contactors Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Finger Protection

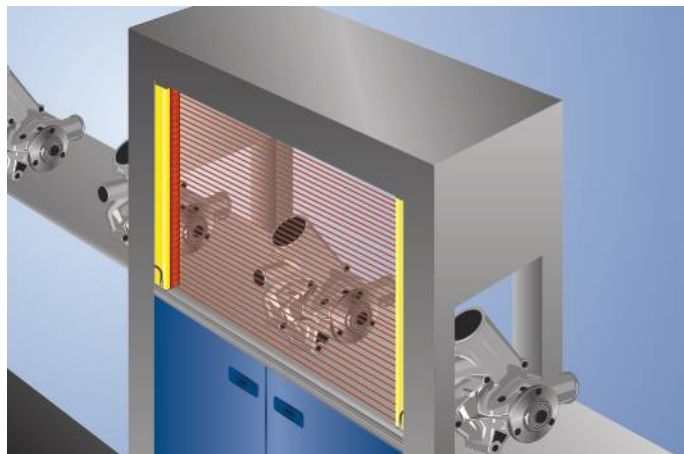
0,25...6 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...6 m
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

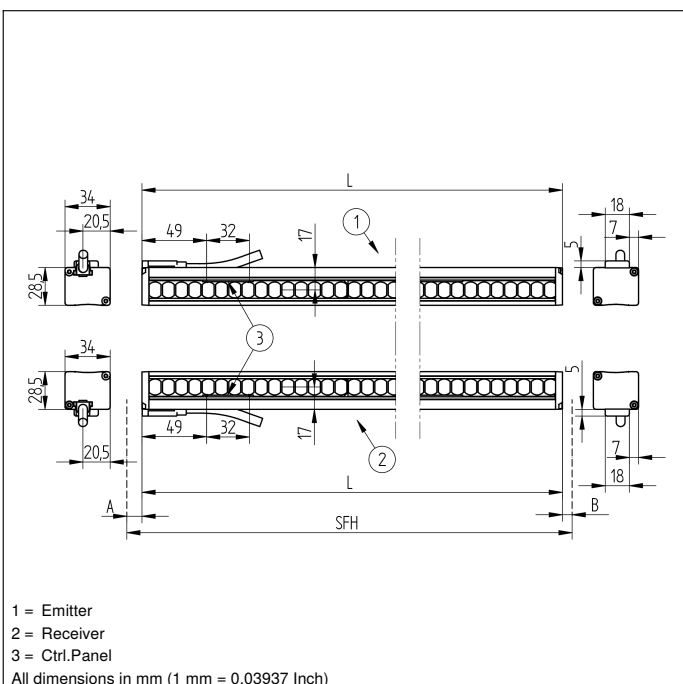
Supply Voltage	19,2...28,8 V DC
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3





Plug Version

Part Number	Plug Version			
	SEMG533	SEMG633	SEMG534	SEMG634
Scope of delivery	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001
Housing Length (L)	459 mm	459 mm	609 mm	609 mm
Safety Field Height (SFH)	460 mm	460 mm	610 mm	610 mm
Wave Length	630 nm		630 nm	
Max. Ambient Light		10000 Lux		10000 Lux
Sensor Type	Emitter	Receiver	Emitter	Receiver
Current Consumption (Ub = 24 V)	100 mA	200 mA	100 mA	200 mA
Response Time		9,9 ms		11,6 ms
No. Safety Outputs (OSSDs)		2		2
Safety Output Voltage Drop		< 2,3 V		< 2,3 V
PNP Safety Output/Switching Current		300 mA		300 mA
Signal Outputs		1		1
Signal Output Voltage Drop		< 2,5 V		< 2,5 V
Signal Output/Switching Current		100 mA		100 mA
Short Circuit and Overload Protection		yes		yes
Connection	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin
PFHd		1,60 × E-8 1/h		1,60 × E-8 1/h
Connection Diagram No.	362	361	362	361
Control Panel No.	SR4	SR5	SR4	SR5
Suitable Connection Technology No.	2 35	89	2 35	89
Suitable Mounting Technology No.	790 810 820	790 810 820	790 810 820	790 810 820
Finger Protection	yes	yes	yes	yes
Restart Inhibit		yes		yes
Safety Operating Mode		yes		yes
Contactors Monitoring		yes		yes

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

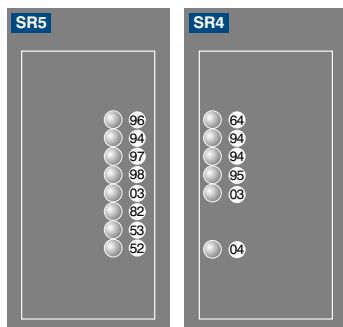
Deflection Mirror Z2UG002

Protection Column with Deflection Mirror SZ000EU125NN01

Protection Column with Screening Grid SZ000EG125NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contactors Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Finger Protection

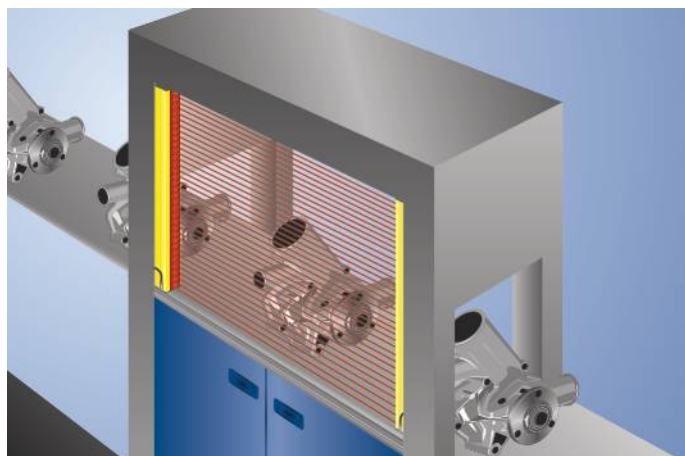
0,25...6 m

Range



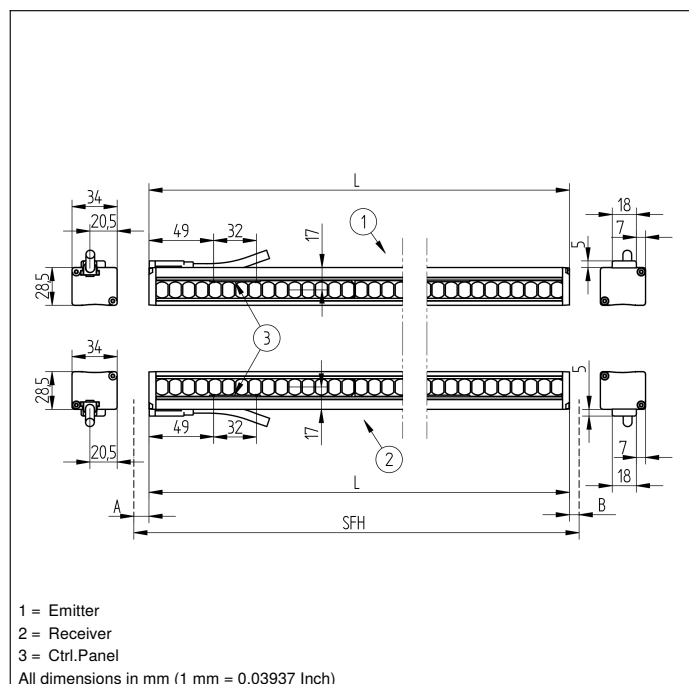
- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data	
Range	0,25...6 m
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °
Electrical Data	
Supply Voltage	19,2...28,8 V DC
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III
Mechanical Data	
Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm
Safety-relevant Data	
ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3




Plug Version

Part Number	SEMG535	SEMG635	SEMG536	SEMG636	SEMG537	SEMG637
Scope of delivery	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001
Housing Length (L)	760 mm	760 mm	910 mm	910 mm	1060 mm	1060 mm
Safety Field Height (SFH)	761 mm	761 mm	911 mm	911 mm	1061 mm	1061 mm
Wave Length	630 nm		630 nm		630 nm	
Max. Ambient Light		10000 Lux		10000 Lux		10000 Lux
Sensor Type	Emitter	Receiver	Emitter	Receiver	Emitter	Receiver
Current Consumption (Ub = 24 V)	100 mA	200 mA	100 mA	200 mA	100 mA	200 mA
Response Time		13,2 ms		14,9 ms		16,5 ms
No. Safety Outputs (OSSDs)		2		2		2
Safety Output Voltage Drop		< 2,3 V		< 2,3 V		< 2,3 V
PNP Safety Output/Switching Current		300 mA		300 mA		300 mA
Signal Outputs		1		1		1
Signal Output Voltage Drop		< 2,5 V		< 2,5 V		< 2,5 V
Signal Output/Switching Current		100 mA		100 mA		100 mA
Short Circuit and Overload Protection		yes		yes		yes
Connection	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin
PFHd		1,60 × E-8 1/h		1,60 × E-8 1/h		1,60 × E-8 1/h
Connection Diagram No.	362	361	362	361	362	361
Control Panel No.	SR4	SR5	SR4	SR5	SR4	SR5
Suitable Connection Technology No.	2 35	89	2 35	89	2 35	89
Suitable Mounting Technology No.	790 810 820	790 810 820	790 810 820	790 810 820	790 810 820	790 810 820
Finger Protection	yes	yes	yes	yes	yes	yes
Restart Inhibit		yes		yes		yes
Safety Operating Mode		yes		yes		yes
Contactors Monitoring		yes		yes		yes

Connection Diagrams/Tables page 54 / System Components page 2

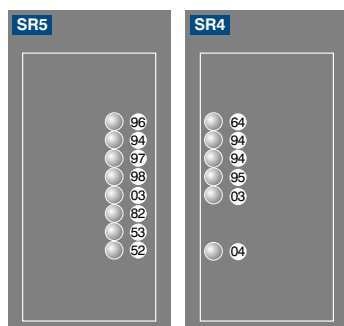
Complementary Products

Deflection Mirror Z2UG003

Protection Column with Deflection Mirror SZ000EU125NN01

Protection Column with Screening Grid SZ000EG125NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel


03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contactors Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Finger Protection

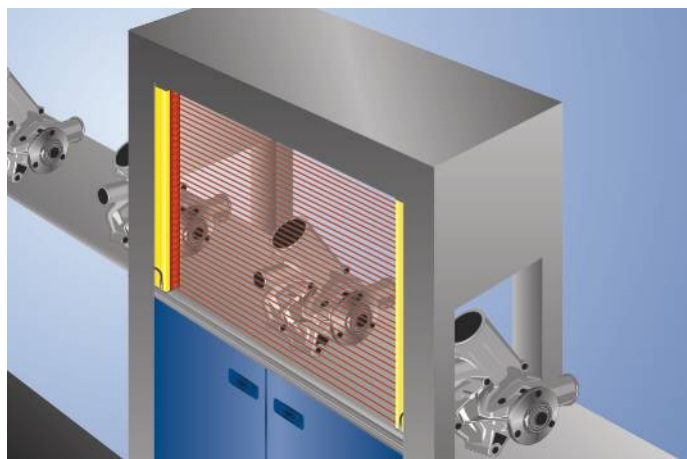
0,25...6 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...6 m
Housing Length (L)	1210 mm
Safety Field Height (SFH)	1211 mm
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

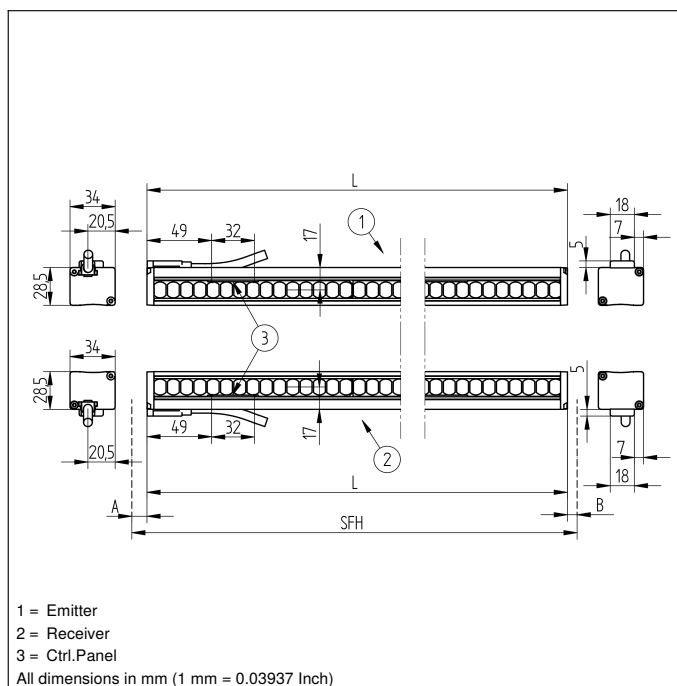
Supply Voltage	19,2...28,8 V DC
Temperature Range	-5...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



	Plug Version	
	SEMGS38	SEMGS38
   	Part Number	Part Number
Scope of delivery	Mounting ZEMX001	Mounting ZEMX001
Wave Length	630 nm	
Max. Ambient Light		10000 Lux
Sensor Type	Emitter	Receiver
Current Consumption (Ub = 24 V)	100 mA	200 mA
Response Time		18,2 ms
No. Safety Outputs (OSSDs)		2
Safety Output Voltage Drop		< 2,3 V
PNP Safety Output/Switching Current		300 mA
Signal Outputs		1
Signal Output Voltage Drop		< 2,5 V
Signal Output/Switching Current		100 mA
Short Circuit and Overload Protection		yes
Connection	M12 × 1; 4/5-pin	M12 × 1; 8-pin
PFHd		1,60 × E-8 1/h
Connection Diagram No.	362	361
Control Panel No.	SR4	SR5
Suitable Connection Technology No.	2 35	89
Suitable Mounting Technology No.	790 810 820	790 810 820
Finger Protection	yes	yes
Restart Inhibit		yes
Safety Operating Mode		yes
Contact Monitoring		yes

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

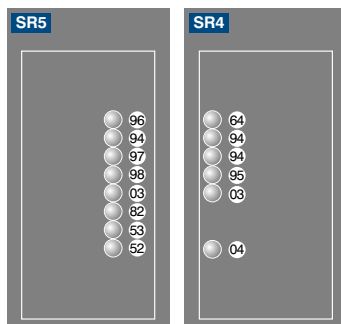
Deflection Mirror Z2UG003

Protection Column with Deflection Mirror SZ000EU170NN01

Protection Column with Screening Grid SZ000EG170NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contact Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Finger Protection

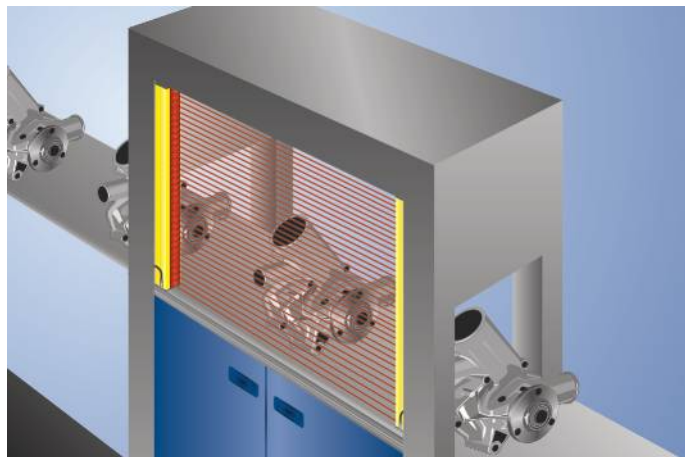
0,25...6 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...6 m
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

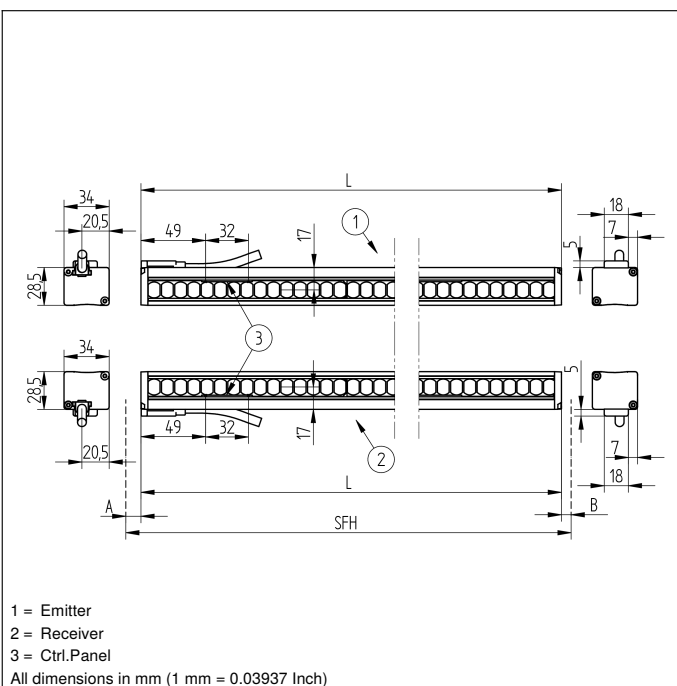
Supply Voltage	19,2...28,8 V DC
Temperature Range	-5...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



   				Part Number	Plug Version											
					SEMG539			SEMG639			SEMG540			SEMG640		
Scope of delivery					Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001		
Housing Length (L)					1360 mm			1360 mm			1510 mm			1510 mm		
Safety Field Height (SFH)					1361 mm			1361 mm			1511 mm			1511 mm		
Wave Length					630 nm						630 nm					
Max. Ambient Light								10000 Lux						10000 Lux		
Sensor Type					Emitter			Receiver			Emitter			Receiver		
Current Consumption (Ub = 24 V)					100 mA			200 mA			100 mA			200 mA		
Response Time								19,8 ms						21,5 ms		
No. Safety Outputs (OSSDs)								2						2		
Safety Output Voltage Drop								< 2,3 V						< 2,3 V		
PNP Safety Output/Switching Current								300 mA						300 mA		
Signal Outputs								1						1		
Signal Output Voltage Drop								< 2,5 V						< 2,5 V		
Signal Output/Switching Current								100 mA						100 mA		
Short Circuit and Overload Protection								yes						yes		
Connection					M12 × 1; 4/5-pin			M12 × 1; 8-pin			M12 × 1; 4/5-pin			M12 × 1; 8-pin		
PFHd								1,60 × E-8 1/h						1,60 × E-8 1/h		
Connection Diagram No.					362			361			362			361		
Control Panel No.					SR4			SR5			SR4			SR5		
Suitable Connection Technology No.					2 35			89			2 35			89		
Suitable Mounting Technology No.					790 810 820			790 810 820			790 810 820			790 810 820		
Finger Protection					yes			yes			yes			yes		
Restart Inhibit								yes						yes		
Safety Operating Mode								yes						yes		
Contactor Monitoring								yes						yes		

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

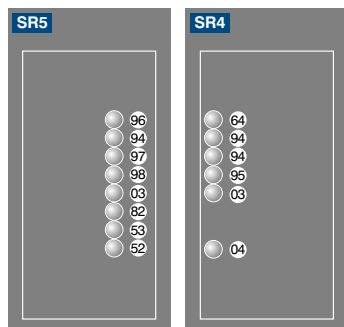
Deflection Mirror Z2UG004

Protection Column with Deflection Mirror SZ000EU170NN01

Protection Column with Screening Grid SZ000EG170NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contactors Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Finger Protection

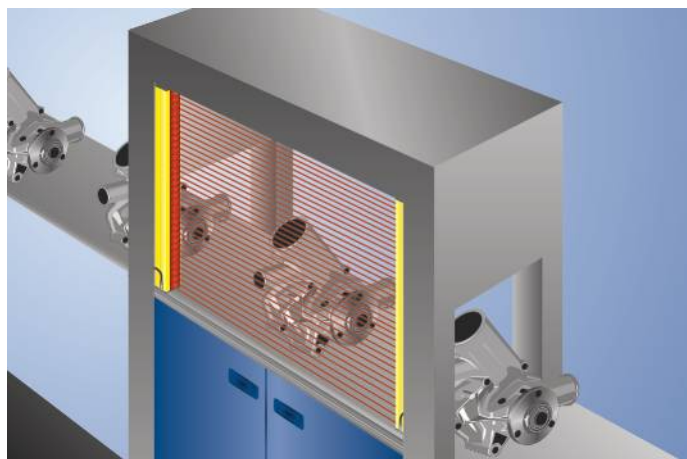
0,25...6 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...6 m
Resolution	14 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

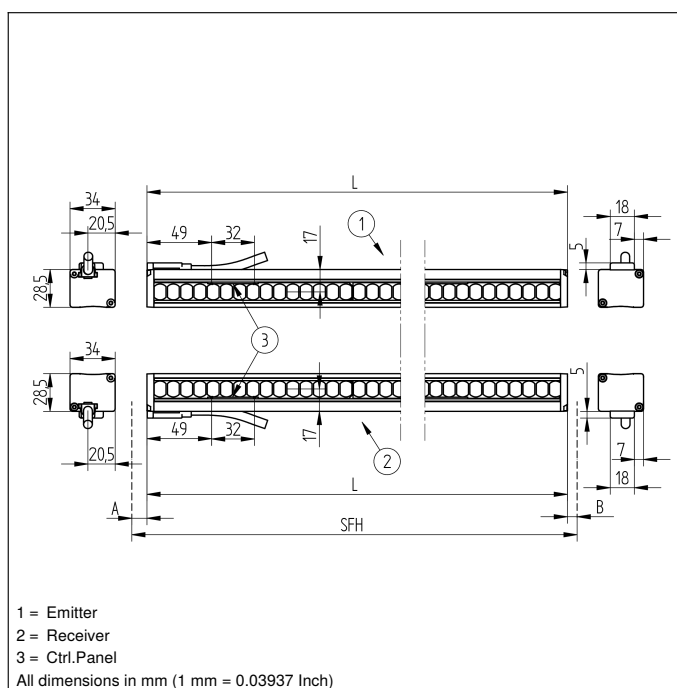
Supply Voltage	19,2...28,8 V DC
Temperature Range	-5...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



   				Part Number	Plug Version											
					SEMG541			SEMG641			SEMG542			SEMG642		
Scope of delivery					Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001		
Housing Length (L)					1660 mm			1660 mm			1810 mm			1810 mm		
Safety Field Height (SFH)					1661 mm			1661 mm			1811 mm			1811 mm		
Wave Length					630 nm						630 nm					
Max. Ambient Light								10000 Lux						10000 Lux		
Sensor Type					Emitter			Receiver			Emitter			Receiver		
Current Consumption (Ub = 24 V)					100 mA			200 mA			100 mA			200 mA		
Response Time								23,1 ms						24,8 ms		
No. Safety Outputs (OSSDs)								2						2		
Safety Output Voltage Drop								< 2,3 V						< 2,3 V		
PNP Safety Output/Switching Current								300 mA						300 mA		
Signal Outputs								1						1		
Signal Output Voltage Drop								< 2,5 V						< 2,5 V		
Signal Output/Switching Current								100 mA						100 mA		
Short Circuit and Overload Protection								yes						yes		
Connection					M12 × 1; 4/5-pin			M12 × 1; 8-pin			M12 × 1; 4/5-pin			M12 × 1; 8-pin		
PFHd								1,60 × E-8 1/h						1,60 × E-8 1/h		
Connection Diagram No.					362			361			362			361		
Control Panel No.					SR4			SR5			SR4			SR5		
Suitable Connection Technology No.					2 35			89			2 35			89		
Suitable Mounting Technology No.					790 810 820			790 810 820			790 810 820			790 810 820		
Finger Protection					yes			yes			yes			yes		
Restart Inhibit								yes						yes		
Safety Operating Mode								yes						yes		
Contactor Monitoring								yes						yes		

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

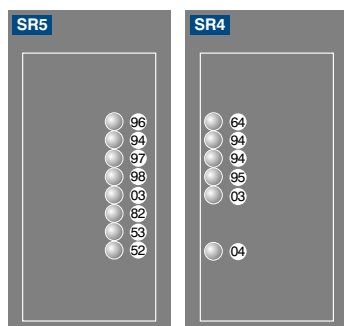
Deflection Mirror Z2UG004

Protection Column with Deflection Mirror SZ000EU215NN01

Protection Column with Screening Grid SZ000EG215NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contactors Monitoring

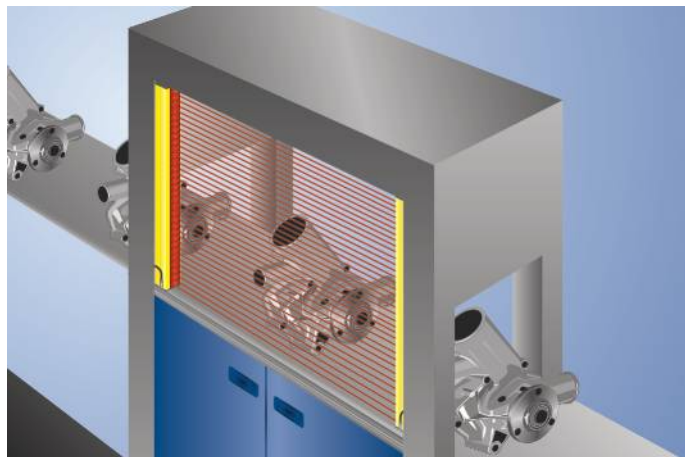
98 = Diagnosis/Synchronization

Hand Protection

Range



- These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



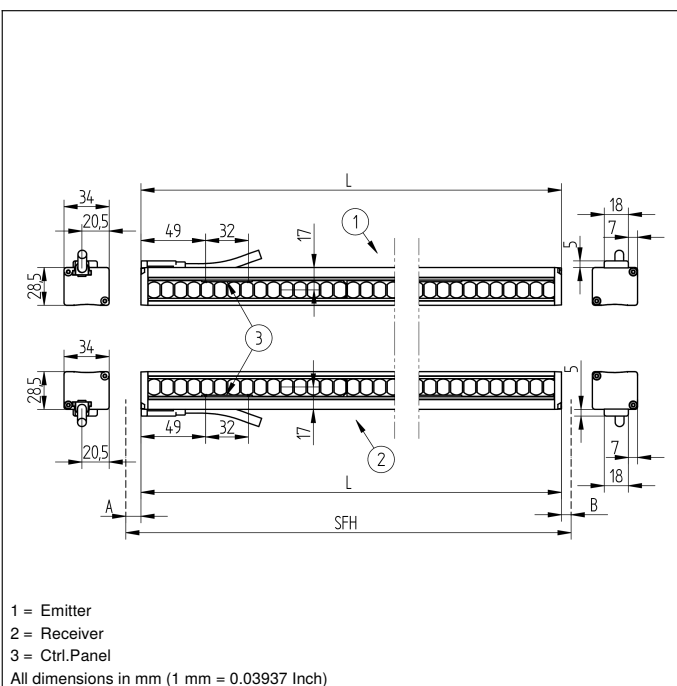
Optical Data

Electrical Data

Mechanical Data

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3





Plug Version

Part Number	SEMG512	SEMG612	SEMG513	SEMG613	SEMG514	SEMG614
Scope of delivery	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001
Housing Length (L)	311 mm	311 mm	461 mm	461 mm	611 mm	611 mm
Safety Field Height (SFH)	326 mm	326 mm	486 mm	486 mm	626 mm	626 mm
Wave Length	630 nm		630 nm		630 nm	
Max. Ambient Light		10000 Lux		10000 Lux		10000 Lux
Sensor Type	Emitter	Receiver	Emitter	Receiver	Emitter	Receiver
Current Consumption (Ub = 24 V)	100 mA	200 mA	100 mA	200 mA	100 mA	200 mA
Response Time		6,6 ms		7,5 ms		8,3 ms
No. Safety Outputs (OSSDs)		2		2		2
Safety Output Voltage Drop		< 2,3 V		< 2,3 V		< 2,3 V
PNP Safety Output/Switching Current		300 mA		300 mA		300 mA
Signal Outputs		1		1		1
Signal Output Voltage Drop		< 2,5 V		< 2,5 V		< 2,5 V
Signal Output/Switching Current		100 mA		100 mA		100 mA
Short Circuit and Overload Protection		yes		yes		yes
Connection	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin
PFHd		1,60 × E-8 1/h		1,60 × E-8 1/h		1,60 × E-8 1/h
Connection Diagram No.	362	361	362	361	362	361
Control Panel No.	SR4	SR5	SR4	SR5	SR4	SR5
Suitable Connection Technology No.	2 35	89	2 35	89	2 35	89
Suitable Mounting Technology No.	790 810 820	790 810 820	790 810 820	790 810 820	790 810 820	790 810 820
Hand Protection	yes	yes	yes	yes	yes	yes
Restart Inhibit		yes		yes		yes
Safety Operating Mode		yes		yes		yes
Contactors Monitoring		yes		yes		yes

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

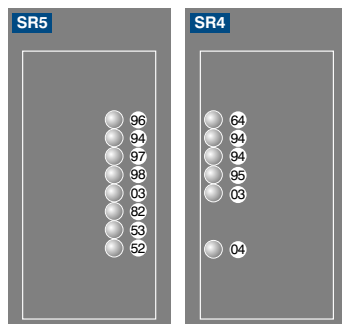
Deflection Mirror Z2UG002

Protection Column with Deflection Mirror SZ000EU125NN01

Protection Column with Screening Grid SZ000EG125NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator
04 = Function Indicator
52 = OSSD ON
53 = OSSD OFF
64 = Diagnosis/Test
82 = Acknowledgement Request
94 = Diagnosis
95 = Diagnosis/Large Detection Range

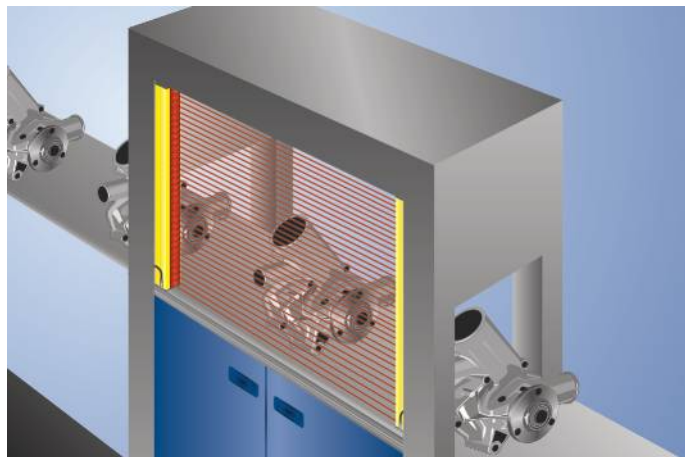
96 = Diagnosis/Signal weak
97 = Diagnosis/Contactors Monitoring
98 = Diagnosis/Synchronization

Hand Protection

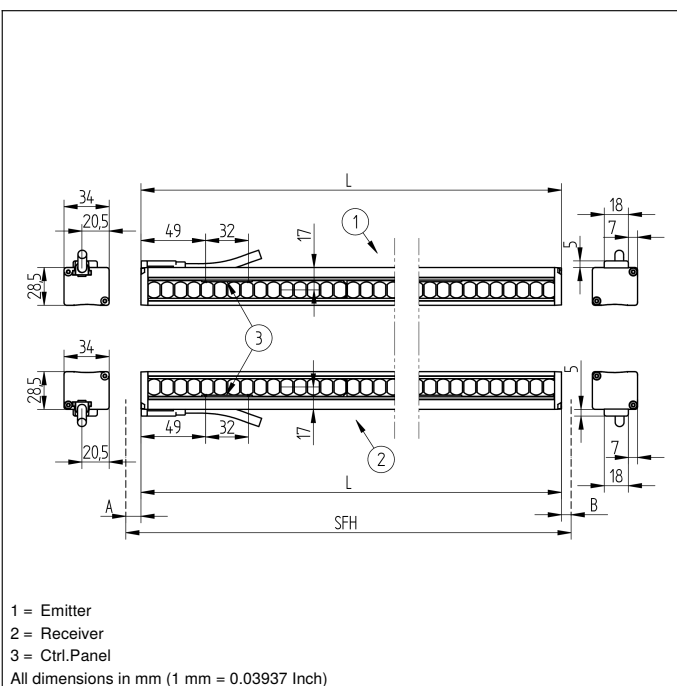
Range



These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3




Plug Version

Part Number	SEMG515	SEMG615	SEMG516	SEMG616	SEMG517	SEMG617
Scope of delivery	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001	Mounting ZEMX001
Housing Length (L)	762 mm	762 mm	912 mm	912 mm	1062 mm	1062 mm
Safety Field Height (SFH)	787 mm	787 mm	927 mm	927 mm	1087 mm	1087 mm
Wave Length	630 nm		630 nm		630 nm	
Max. Ambient Light		10000 Lux		10000 Lux		10000 Lux
Sensor Type	Emitter	Receiver	Emitter	Receiver	Emitter	Receiver
Current Consumption (Ub = 24 V)	100 mA	200 mA	100 mA	200 mA	100 mA	200 mA
Response Time		9,1 ms		9,9 ms		10,8 ms
No. Safety Outputs (OSSDs)		2		2		2
Safety Output Voltage Drop		< 2,3 V		< 2,3 V		< 2,3 V
PNP Safety Output/Switching Current		300 mA		300 mA		300 mA
Signal Outputs		1		1		1
Signal Output Voltage Drop		< 2,5 V		< 2,5 V		< 2,5 V
Signal Output/Switching Current		100 mA		100 mA		100 mA
Short Circuit and Overload Protection		yes		yes		yes
Connection	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin	M12 × 1; 4/5-pin	M12 × 1; 8-pin
PFHd		1,60 × E-8 1/h		1,60 × E-8 1/h		1,60 × E-8 1/h
Connection Diagram No.	362	361	362	361	362	361
Control Panel No.	SR4	SR5	SR4	SR5	SR4	SR5
Suitable Connection Technology No.	2 35	89	2 35	89	2 35	89
Suitable Mounting Technology No.	790 810 820	790 810 820	790 810 820	790 810 820	790 810 820	790 810 820
Hand Protection	yes	yes	yes	yes	yes	yes
Restart Inhibit		yes		yes		yes
Safety Operating Mode		yes		yes		yes
Contactors Monitoring		yes		yes		yes

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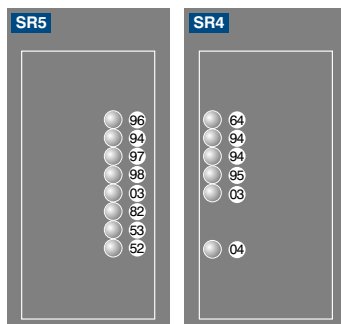
Complementary Products

Deflection Mirror Z2UG003

Protection Column with Deflection Mirror SZ000EU125NN01

Protection Column with Screening Grid SZ000EG125NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel


03 = Error Indicator
04 = Function Indicator
52 = OSSD ON
53 = OSSD OFF

64 = Diagnosis/Test
82 = Acknowledgement Request
94 = Diagnosis
95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak
97 = Diagnosis/Contactors Monitoring
98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Hand Protection

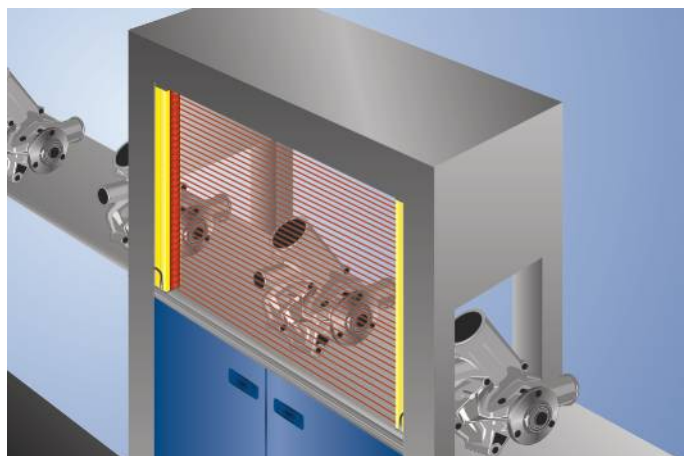
0,25...14 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...14 m
Housing Length (L)	1212 mm
Safety Field Height (SFH)	1227 mm
Resolution	30 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

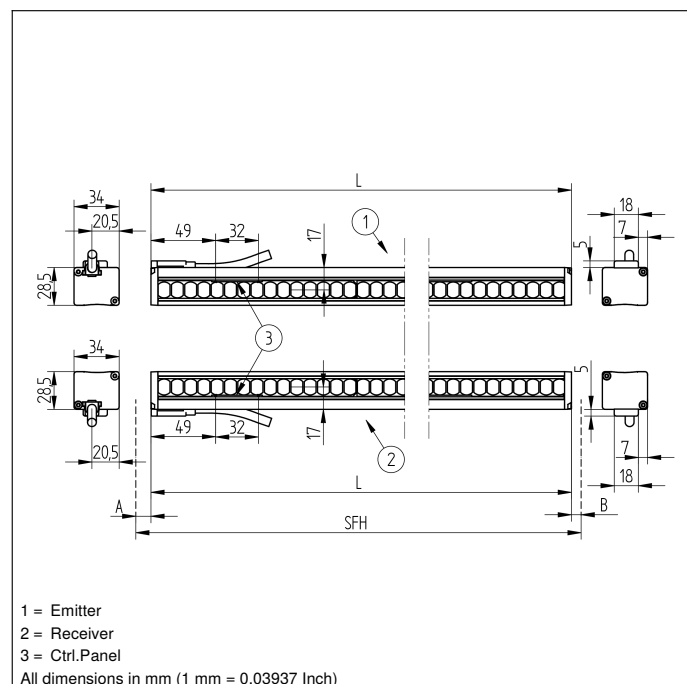
Supply Voltage	19,2...28,8 V DC
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



	Plug Version	
	SEMG518	SEMG618
   	Part Number	
Scope of delivery	Mounting ZEMX001	Mounting ZEMX001
Wave Length	630 nm	
Max. Ambient Light		10000 Lux
Sensor Type	Emitter	Receiver
Current Consumption (U _b = 24 V)	100 mA	200 mA
Response Time		11,6 ms
No. Safety Outputs (OSSDs)		2
Safety Output Voltage Drop		< 2,3 V
PNP Safety Output/Switching Current		300 mA
Signal Outputs		1
Signal Output Voltage Drop		< 2,5 V
Signal Output/Switching Current		100 mA
Short Circuit and Overload Protection		yes
Connection	M12 × 1; 4/5-pin	M12 × 1; 8-pin
PFHd		1,60 × E-8 1/h
Connection Diagram No.	362	361
Control Panel No.	SR4	SR5
Suitable Connection Technology No.	2 35	89
Suitable Mounting Technology No.	790 810 820	790 810 820
Hand Protection	yes	yes
Restart Inhibit		yes
Safety Operating Mode		yes
Contact Monitoring		yes

Connection Diagrams/Tables page 54 / System Components page 2

Complementary Products

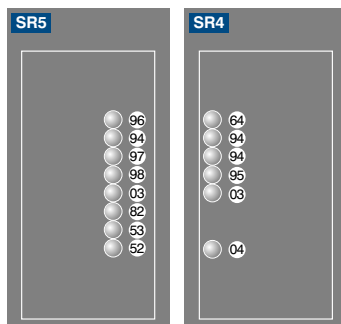
Deflection Mirror Z2UG003

Protection Column with Deflection Mirror SZ000EU170NN01

Protection Column with Screening Grid SZ000EG170NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

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95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contact Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Hand Protection

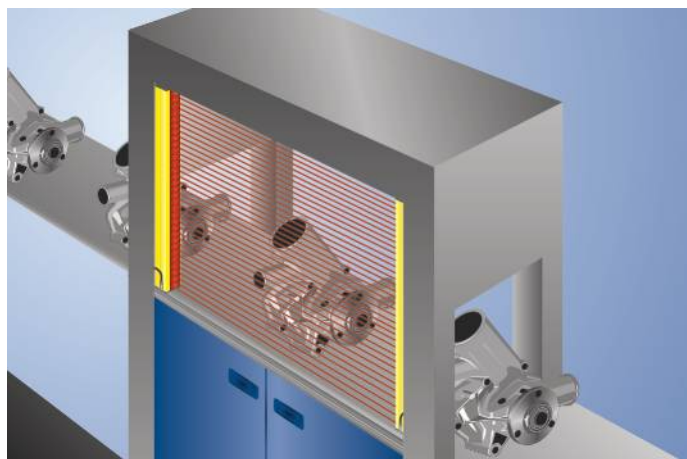
0,25...14 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...14 m
Resolution	30 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

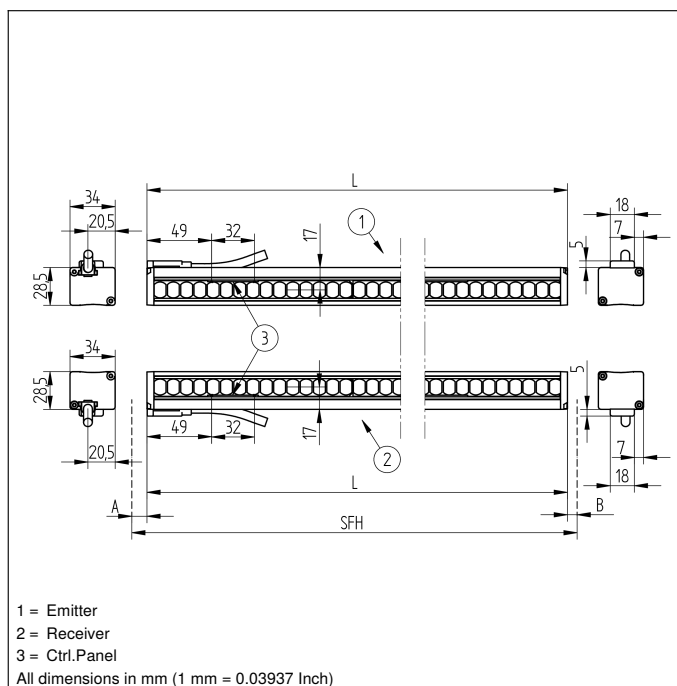
Supply Voltage	19,2...28,8 V DC
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



   		Part Number	Plug Version											
			SEMG519			SEMG619			SEMG520			SEMG620		
Scope of delivery			Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001		
Housing Length (L)			1362 mm			1362 mm			1512 mm			1512 mm		
Safety Field Height (SFH)			1387 mm			1387 mm			1527 mm			1527 mm		
Wave Length			630 nm						630 nm					
Max. Ambient Light						10000 Lux						10000 Lux		
Sensor Type			Emitter			Receiver			Emitter			Receiver		
Current Consumption (Ub = 24 V)			100 mA			200 mA			100 mA			200 mA		
Response Time						12,4 ms						13,2 ms		
No. Safety Outputs (OSSDs)						2						2		
Safety Output Voltage Drop						< 2,3 V						< 2,3 V		
PNP Safety Output/Switching Current						300 mA						300 mA		
Signal Outputs						1						1		
Signal Output Voltage Drop						< 2,5 V						< 2,5 V		
Signal Output/Switching Current						100 mA						100 mA		
Short Circuit and Overload Protection						yes						yes		
Connection			M12 × 1; 4/5-pin			M12 × 1; 8-pin			M12 × 1; 4/5-pin			M12 × 1; 8-pin		
PFHd						1,60 × E-8 1/h						1,60 × E-8 1/h		
Connection Diagram No.			362			361			362			361		
Control Panel No.			SR4			SR5			SR4			SR5		
Suitable Connection Technology No.			2 35			89			2 35			89		
Suitable Mounting Technology No.			790	810	820	790	810	820	790	810	820	790	810	820
Hand Protection			yes			yes			yes			yes		
Restart Inhibit						yes						yes		
Safety Operating Mode						yes						yes		
Contactor Monitoring						yes						yes		

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Complementary Products

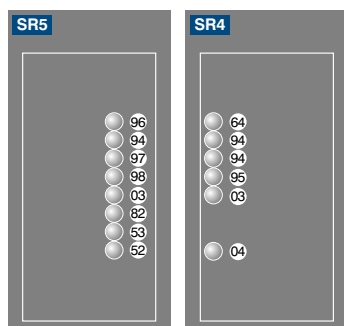
Deflection Mirror Z2UG004

Protection Column with Deflection Mirror SZ000EU170NN01

Protection Column with Screening Grid SZ000EG170NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



03 = Error Indicator

04 = Function Indicator

52 = OSSD ON

53 = OSSD OFF

64 = Diagnosis/Test

82 = Acknowledgement Request

94 = Diagnosis

95 = Diagnosis/Large Detection Range

96 = Diagnosis/Signal weak

97 = Diagnosis/Contactors Monitoring

98 = Diagnosis/Synchronization

Safety Light Curtain Type 4

Hand Protection

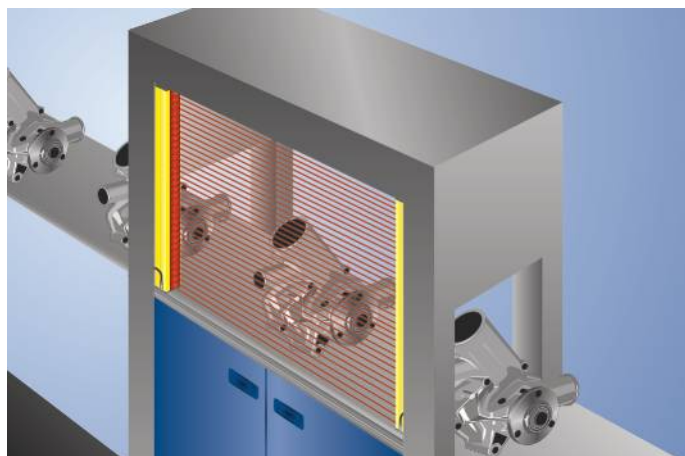
0,25...14 m

Range



- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

These safety light curtains confidently solve all basic tasks. The basic function protection mode, restart inhibit and protection monitoring are standard and can be easily configured. The protective field always extends up to the end of the housing without protrusion. As a result, protection is easily provided even in confined installation conditions. The adequate mounting angle ZEMX001 is included in the delivery.



Technical Data

Optical Data

Range	0,25...14 m
Resolution	30 mm
Light Source	Red Light
Opening Angle	± 2,5 °

Electrical Data

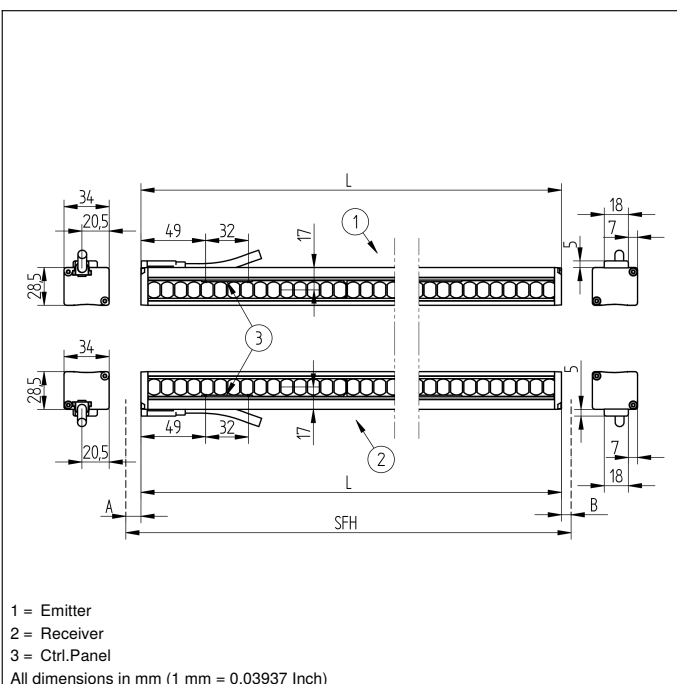
Supply Voltage	19,2...28,8 V DC
Temperature Range	-25...55 °C
Storage temperature	-25...60 °C
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Housing Material	Aluminum
Disk Material	Polycarbonate
Degree of Protection	IP65/IP67
Cable Length	300 mm

Safety-relevant Data

ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Service Life TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3



   				Part Number	Plug Version											
					SEMG521			SEMG621			SEMG522			SEMG622		
Scope of delivery					Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001			Mounting ZEMX001		
Housing Length (L)					1662 mm			1662 mm			1812 mm			1812 mm		
Safety Field Height (SFH)					1687 mm			1687 mm			1827 mm			1827 mm		
Wave Length					630 nm						630 nm					
Max. Ambient Light								10000 Lux						10000 Lux		
Sensor Type					Emitter			Receiver			Emitter			Receiver		
Current Consumption (Ub = 24 V)					100 mA			200 mA			100 mA			200 mA		
Response Time								14,1 ms						14,9 ms		
No. Safety Outputs (OSSDs)								2						2		
Safety Output Voltage Drop								< 2,3 V						< 2,3 V		
PNP Safety Output/Switching Current								300 mA						300 mA		
Signal Outputs								1						1		
Signal Output Voltage Drop								< 2,5 V						< 2,5 V		
Signal Output/Switching Current								100 mA						100 mA		
Short Circuit and Overload Protection								yes						yes		
Connection					M12 × 1; 4/5-pin			M12 × 1; 8-pin			M12 × 1; 4/5-pin			M12 × 1; 8-pin		
PFHd								1,60 × E-8 1/h						1,60 × E-8 1/h		
Connection Diagram No.					362			361			362			361		
Control Panel No.					SR4			SR5			SR4			SR5		
Suitable Connection Technology No.					2 35			89			2 35			89		
Suitable Mounting Technology No.					790 810 820			790 810 820			790 810 820			790 810 820		
Hand Protection					yes			yes			yes			yes		
Restart Inhibit								yes						yes		
Safety Operating Mode								yes						yes		
Contactor Monitoring								yes						yes		

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Complementary Products

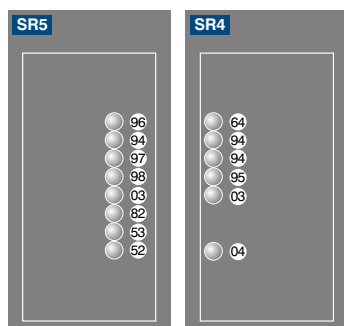
Deflection Mirror Z2UG004

Protection Column with Deflection Mirror SZ000EU215NN01

Protection Column with Screening Grid SZ000EG215NN01

Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S

Ctrl. Panel



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64 = Diagnosis/Test

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Connection Diagrams

Legend

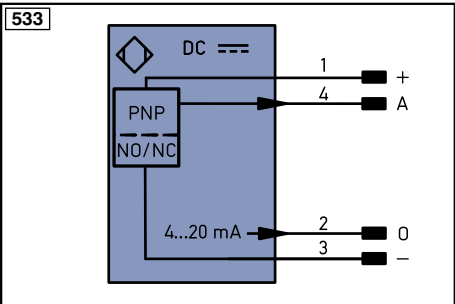
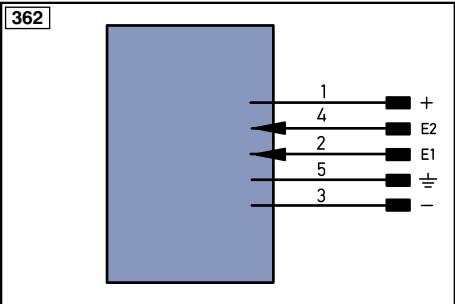
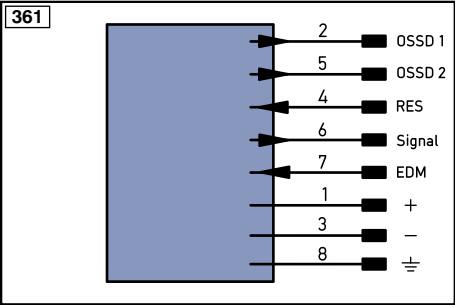
+	Supply Voltage +
–	Supply Voltage 0 V
~	Supply Voltage (AC Voltage)
A	Switching Output (NO)
Ā	Switching Output (NC)
V	Contamination/Error Output (NO)
Ṽ	Contamination/Error Output (NC)
E	Input (analog or digital)
T	Teach Input
Z	Time Delay (activation)
S	Shielding
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
	IO-Link
PoE	Power over Ethernet
IN	Safety Input
OSSD	Safety Output
Signal	Signal Output
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)
EN0 RS422	Encoder 0-pulse 0-0̄ (TTL)

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ū	Test Input inverted
W	Trigger Input
O	Analog Output
O–	Ground for the Analog Output
BZ	Block Discharge
AMV	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
E+	Receiver-Line
S+	Emitter-Line
⊕	Grounding
SnR	Switching Distance Reduction
Rx+/-	Ethernet Receive Path
Tx+/-	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(-)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contacting Monitoring
ENAR5422	Encoder A/Ā (TTL)
ENBR5422	Encoder B/B̄ (TTL)

EN _A	Encoder A
EN _B	Encoder B
A _{MIN}	Digital output MIN
A _{MAX}	Digital output MAX
A _{OK}	Digital output OK
SY _{In}	Synchronization In
SY _{OUT}	Synchronization OUT
O _{LT}	Brightness output
M	Maintenance

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow



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