Accessories

Meeting all needs

Mechanical accessories
from Page A-4

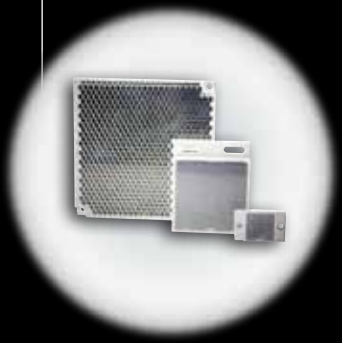
- *Brackets for sensors*
- *Brackets for VISOR® and illumination*

Optical accessories
from Page A-18

- *Reflectors and reflective tape*
- *Lenses and protective casings*
- *Illumination*
- *Calibration accessories*









A sensor rarely comes unaccompanied: accessories supporting their mounting, commissioning and use are of considerable importance for the reliable functioning of an automation solution. The characteristic practical orientation of SensoPart products is thus also evident in a particularly versatile and user-friendly range of accessories. In this section they are divided into categories: mechanical, optical and electrical accessories.

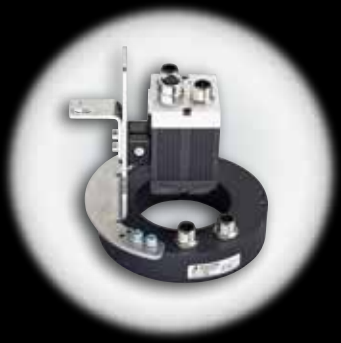
The mechanical accessories include everything that is involved in mounting and protecting the sensor: mounting brackets, blocks, rods and rails, brackets with protective hoops, stainless steel casings for hygienic areas and many others. All accessories are extremely robust and designed to meet practical demands. We thus offer clever, sometimes patented, detailed solutions that greatly simplify the mounting and fine adjustment of sensors, particularly in difficult locations, such as dovetail mountings or rotatable brackets.

Optical accessories include lenses as well as protective casings, external illumination such as ring and surface lights, and reflectors of differing designs, shapes and sizes. All SensoPart lenses offer high optical quality. We offer C-mount lenses as an alternative to integrated lenses especially for vision sensors when, for example, very high measurement distances are required.

Our electrical accessories include a great variety of cables and adapters, power supply units and switching devices, as well as interface components for the integration of supplementary functions. One example of the latter category is the SmartPlug – very popular amongst users – which expands switching sensors with logic and control functions such as counters, timing elements, inverters or frequency converters. The SmartPlug is simply plugged in between the sensor and the cable – a brilliant little product that is only available from SensoPart!

Electrical accessories
from Page A-46

- *Cables*
- *Converters*
- *Power supply units, switching devices and Panel Viewer*








Flexible: *MG 3A Mounting angle with 3 axes and drilled hole for mounting rod.*



Practical: *sensors can be comfortably and precisely aligned after mounting with the help of rod brackets.*



Versatile: *SensoPart offers a comprehensive selection of reflectors and reflective tape: rectangular, square or round.*



Robust: *all mounting and bracket elements are extremely stable and offer additional protection for sensors when necessary.*

Accessories – Product Overview	
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A

Accessories

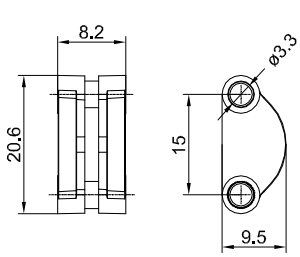
Brackets



- Brackets

Brackets for F 10 series

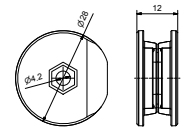




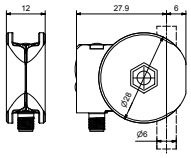
153-00899

Part number / Article number	MBD F 10 / 660-01001
Description	Dovetail clamp mounting, adjustable ± 10° Material: PBT
Suitable for	F 10





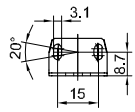
153-13562

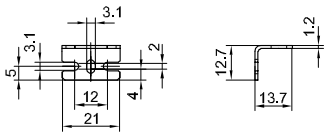


153-13566

Part number / Article number	MBD F 10ST2 / 660-01004
Description	Universal rod mounting component for attaching dovetail F 10 to mounting rods Ø 6 mm adjustable ± 45° Material: die-cast zinc
Suitable for	F 10





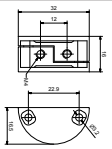


153-00907

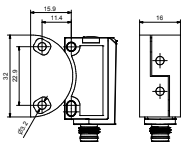
Part number / Article number	MS F 10 / 660-01000
Description	Mounting bracket with screws 1x mounting plate M3 1x mounting plate ø 3.1 mm Material: stainless steel V2A
Suitable for	F 10

Brackets for F 25, FL 20, UT 20





153-00945

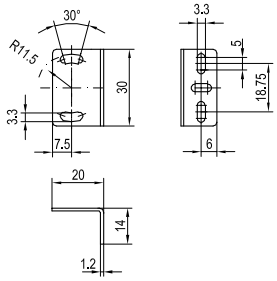


153-00946

Part number / Article number	MBD F 25 / 661-01000
Description	Dovetail clamp mounting, adjustable ± 15°, with screws Material: anodised aluminium
Suitable for	F 25

Brackets for F 25, FL 20, UT 20 (Cont.)

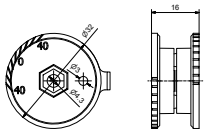




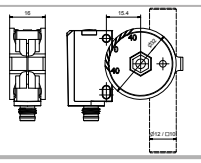
153-00241

Part number / Article number	MS F 20 / 558-41000
Description	Mounting bracket with screws 1x retaining strip Material: nickel-plated steel
Suitable for	F 20 F 25 UT 20 FL 20





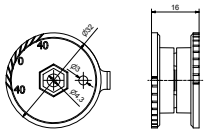
153-01155



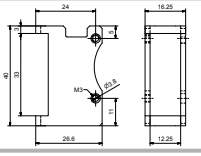
153-01156

Part number / Article number	MBD F 25ST2 / 661-01005
Description	Clamping bracket for Ø 12 mm mounting rod and 10 x 10 mm square profile, with M4 screw and M4 nut Material: die-cast zinc
Suitable for	F 25





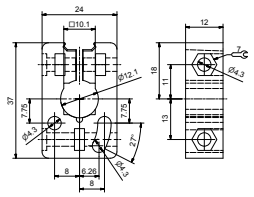
153-01155



153-01163

Part number / Article number	Set: MBD F 25STP / 661-01004
Description	Clamping bracket for Ø 12 mm mounting rod and 10 x 10 mm square profile, with protective casing, M4 screw, M4 thumbscrew, M4 nut, 2x M3 screw Material: die-cast zinc Casing Material: stainless steel V2A
Suitable for	F 25

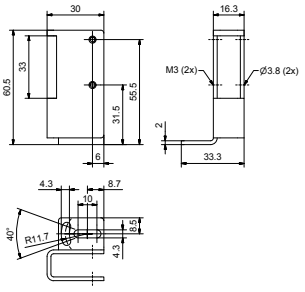




153-01164

Part number / Article number	MB ST2 / 661-01007
Description	Mounting component for Ø 12 mm mounting rod and 10 x 10 mm square profile, and F 55 and fork sensors (FGL), with M4 screw Material: die-cast zinc
Suitable for	F 55, FGL, MST 45-20, MST 45-30, MST 45-40

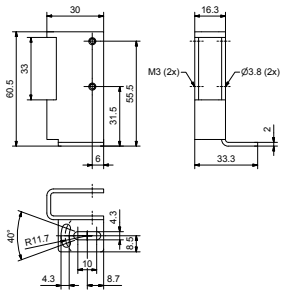




153-01017

Part number / Article number	MSP F 20-11 / 558-41006
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 UT 20-150 F 25 UT 20-S150 FL 20 UT 20-240





153-00296

Part number / Article number	MSP F 20-1 / 558-41004
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 F 25 UT 20 FL 20

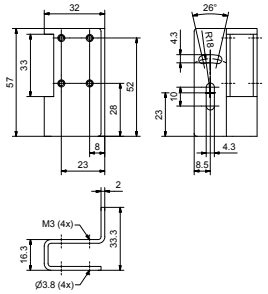
A

Accessories

Brackets

Brackets for F 25, FL 20, UT 20 (Cont.)

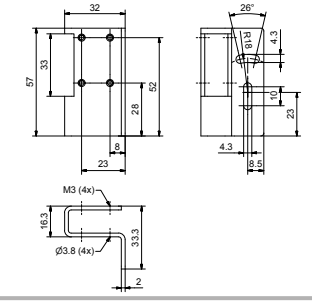




153-00908

Part number / Article number	MSP F 20-23 / 558-41011
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 F 25 UT 20 FL 20

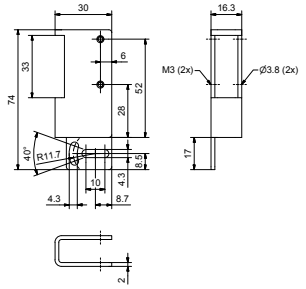




153-00297

Part number / Article number	MSP F 20-2 / 558-41005
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 UT 20-150 F 25 UT 20-S150 FL 20 UT 20-240

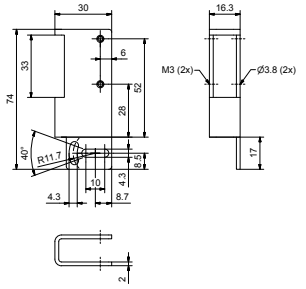




153-00973

Part number / Article number	MSP F 20-13 / 558-41008
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 UT 20-150 F 25 UT 20-S150 FL 20 UT 20-240

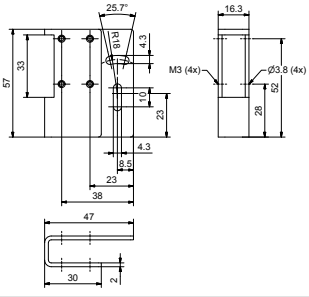




153-00972

Part number / Article number	MSP F 20-12 / 558-41007
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 UT 20-150 F 25 UT 20-S150 FL 20 UT 20-240

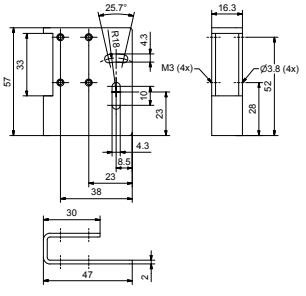




153-00974

Part number / Article number	MSP F 20-21 / 558-41009
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 UT 20-150 F 25 UT 20-S150 FL 20 UT 20-240



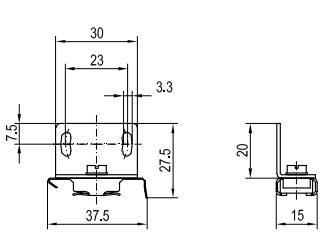


153-00975

Part number / Article number	MSP F 20-22 / 558-41010
Description	Protective sensor angle bracket with screws, very robust Material: stainless steel V2A
Suitable for	F 20 UT 20-150 F 25 UT 20-S150 FL 20 UT 20-240

Brackets for F 25, FL 20, UT 20 (Cont.)

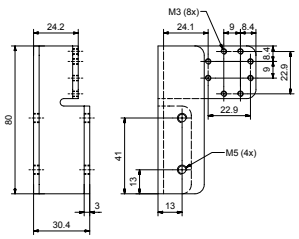




153-00291

Part number / Article number	MS F 20-DIN / 558-41001
Description	DIN rail mounting with screws Material: nickel-plated steel
Suitable for	FL 20



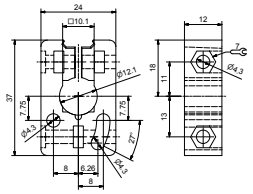


153-01040

Part number / Article number	MZ F 25 / 661-01003
Description	Mounting adapter for FT 25 contrast sensors with horizontal or vertical light exit options, with screws Material: stainless steel V2A
Suitable for	FT 25-W...-KL4 FT 25-RGB...-KL4

Brackets for F 50, F 55, F 80, F 88, FGL series

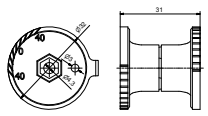




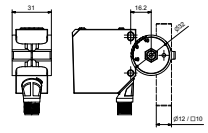
153-01164

Part number / Article number	MB ST2 / 661-01007
Description	Mounting component for Ø 12 mm mounting rod and 10 x 10 mm square profile, and F 55 and fork sensors (FGL), with M4 screw Material: die-cast zinc
Suitable for	F 55, FGL, MST 45-20, MST 45-30, MST 45-40





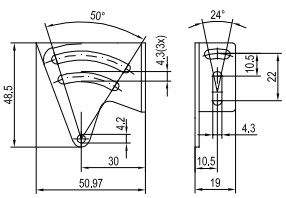
153-01287



153-01288

Part number / Article number	MBD F 55ST2 / 579-50012
Description	Mounting component for F 55 metall housing for bar Ø 12 mm or squared profile 10 x10 mm, with M4 screw and M4 nut Material: die-cast zinc
Suitable for	F 55 metall housing

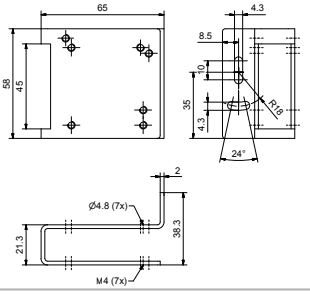




153-00065

Part number / Article number	MS F 50 / 579-50000
Description	Angle bracket with screws Material: stainless steel VA
Suitable for	F 50 F 55 F 80





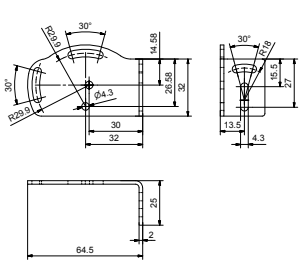
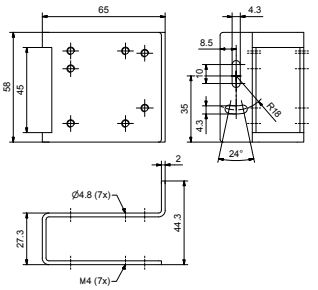
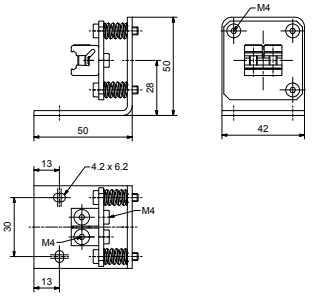
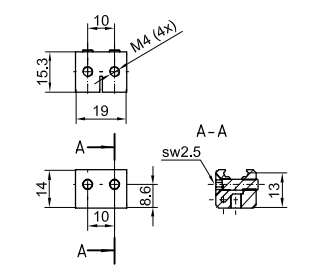
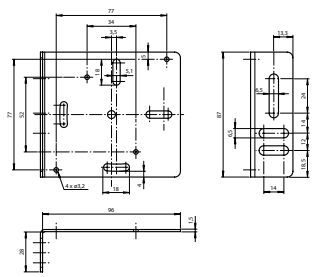
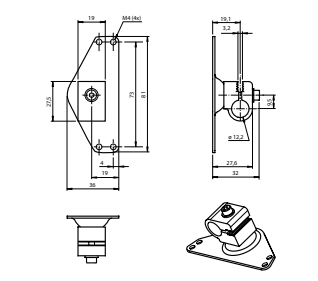
153-00298

Part number / Article number	MSP F 50 / 579-50005
Description	Protective sensor angle bracket with screws, very robust, light exit possible on three sides Material: stainless steel VA
Suitable for	F 50

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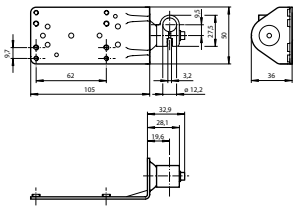
Accessories

Brackets

Brackets for F 50, F 55, F 80, F 88, FGL series (Cont.)			
	 153-00818	Part number / Article number Description Suitable for	MS F 55 / 579-50010 Angle bracket with screws Material: stainless steel V2A F 50 F 55
	 153-00819	Part number / Article number Description Suitable for	MSP F 55 / 579-50011 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 55
	 153-01126	Part number / Article number Description Suitable for	MA F 55 / 579-50007 Mounting angle, fine-adjustable with adjusting screws. Material: stainless steel V2A F 55
	 153-00542	Part number / Article number Description Suitable for	MBD-S94 / 533-21000 Dovetail double clamp mounting Material: metal F 55 FGL F 88
	 153-00561	Part number / Article number Description Suitable for	MS F 88-1 / 820-41001 Angle bracket Material: stainless steel F 80 F 88
	 153-00562	Part number / Article number Description Suitable for	MS F 88-2 / 820-41002 Bracket for mounting rod with joint for fine adjustment, with screws Material: metal F 80 F 88

Brackets for F 50, F 55, F 80, F 88, FGL series (Cont.)

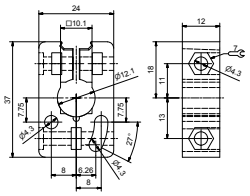




153-00563

Bestellbezeichnung / Artikel-Nr.	MS F 88-3 / 820-41003
Beschreibung	Halterung für Montagestange mit Gelenk für Feinjustage, mit Schrauben Material: Metall
Passend für	F 80 F 88



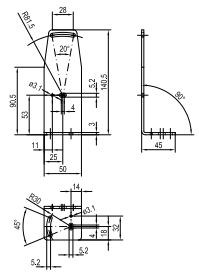


153-01164

Part number / Article number	MB ST2 / 661-01007
Description	Mounting component for Ø 12 mm mounting rod and 10 x 10 mm square profile, and F 55 and fork sensors (FGL), with M4 screw Material: die-cast zinc
Suitable for	F 55, FGL, MST 45-20, MST 45-30, MST 45-40

Brackets for F 90, F 91, F 92 series

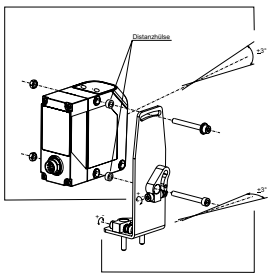




153-01164

Part number / Article number	MSP F 90 / 599-91002
Description	Angle bracket with screws Material: stainless steel V2A
Suitable for	F 90 F 91 F 92

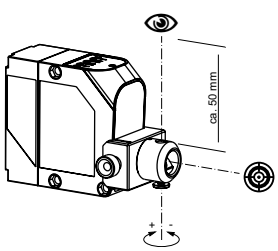




153-00470

Part number / Article number	MSP F 90 A / 599-91003
Description	Fine adjustment for angle bracket MSP F 90, set of two Material: metal
Suitable for	MSP F 90





155-00212

Part number / Article number	AS F 90 / 599-91004
Description	Aligning aid for pilot laser, for fine adjustment at long distances
Suitable for	F 90 F 91 F 92

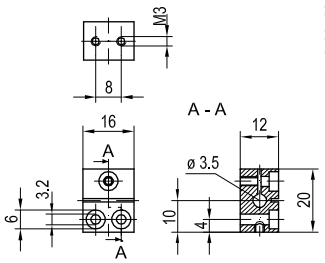
A

Accessories

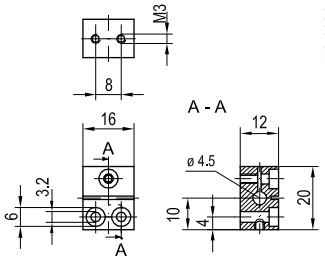
Brackets

Brackets for fibre-optic cables and round housings

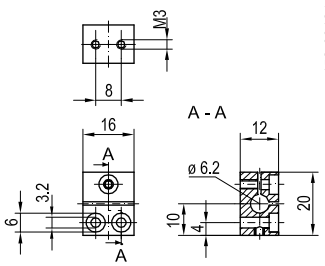




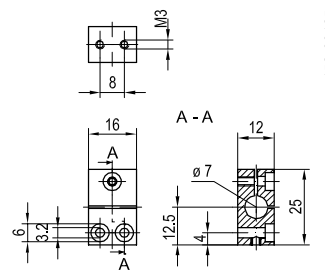
Part number / Article number	MB 3,5 / 903-50313
Description	Mounting block / fibre mount, closed curve Material: nickel-plated brass
Suitable for	Fibre-optic cables



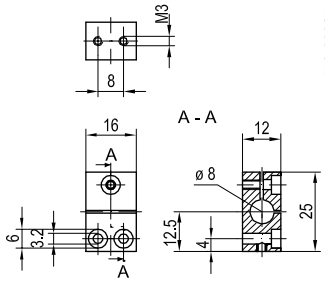
Part number / Article number	MB 4,5 / 903-50314
Description	Mounting block / fibre mount, open curve Material: nickel-plated brass
Suitable for	Fibre-optic cables



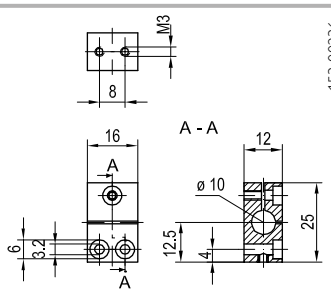
Part number / Article number	MB 6 / 903-05139
Description	Mounting block / fibre mount, open curve Material: nickel-plated brass
Suitable for	Fibre-optic cables



Part number / Article number	MB 7 / 903-05140
Description	Mounting block / fibre mount, open curve Material: nickel-plated brass
Suitable for	Fibre-optic cables



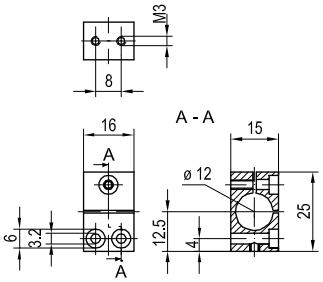
Part number / Article number	MB 8 / 903-05141
Description	Mounting block / fibre mount, open curve Material: nickel-plated brass
Suitable for	Fibre-optic cables, round M8 housings



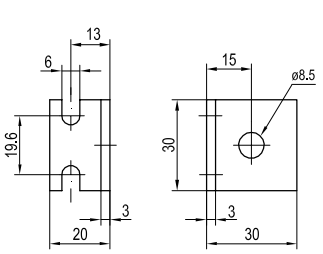
Part number / Article number	MB 10 / 903-05142
Description	Mounting block / fibre mount, open curve Material: nickel-plated brass
Suitable for	Fibre-optic cables, round M10 housings

Brackets for fibre-optic cables and round housings (Cont.)



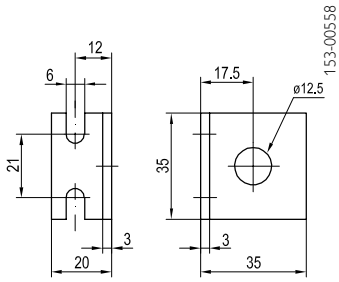


Part number / Article number	MB 12 / 903-05143
Description	Mounting block / fibre mount, closed curve Material: nickel-plated brass
Suitable for	Fibre-optic cables, round M12 housings

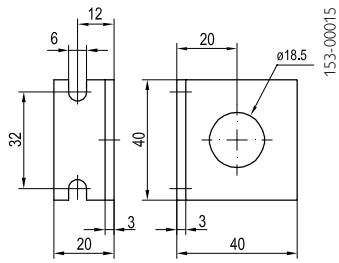


Part number / Article number	MC 08 / 041-01306
Description	Mounting angle for round housings Material: aluminium
Suitable for	Round M8 housings



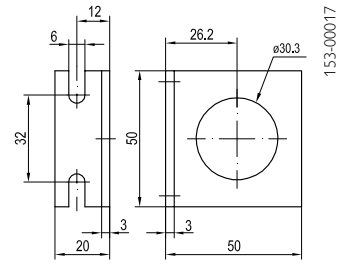


Part number / Article number	MA 12 / 041-01305
Description	Mounting angle for round housings Material: aluminium
Suitable for	Round M12 housings



Part number / Article number	MA 18 / 041-01304
Description	Mounting angle for round housings Material: aluminium
Suitable for	Round M18 housings



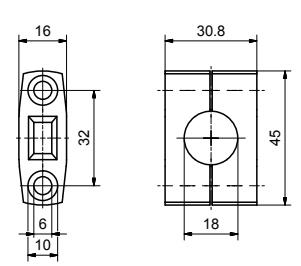
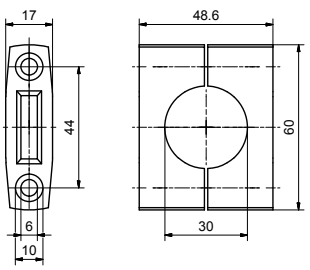
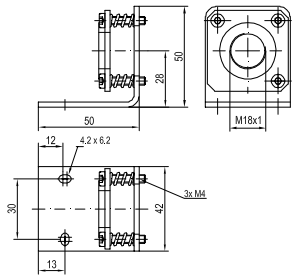
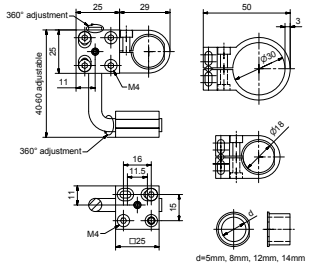
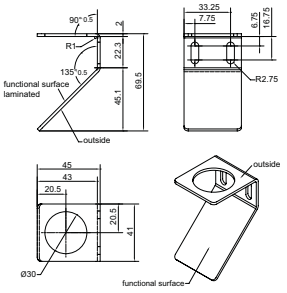


Part number / Article number	MA 30 / 041-01303
Description	Mounting angle for round housings Material: aluminium
Suitable for	Round M30 housings

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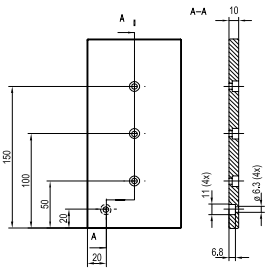
Accessories

Brackets

Brackets for fibre-optic cables and round housings (Cont.)			
	 153-00016	Part number / Article number Description Suitable for	MC 18 / 042-01528 Retaining clip for round housings Material: plastic Round M18 housings
	 153-00018	Part number / Article number Description Suitable for	MC 30 / 042-01527 Retaining clip for round housings Material: plastic Round M30 housings
	 153-00059	Part number / Article number Description Suitable for	MA 18 A / 042-12825 Universal mounting angle for round housings, fine-adjustable with adjusting screws Material: galvanised steel Round M12 and M18 housings
	 153-01016	Part number / Article number Description Suitable for	MS M5-30 / 558-41012 Universal bracket for round housings Material: connecting rod, metal / mounting elements, plastic Round M5, M8, M12, M14, M18 and M30 housings
	 153-00959	Part number / Article number Description Suitable for	Deflection mirror / 691-51535 Deflection mirror for ultrasonic sensors Material: stainless steel UMT 30-350 UMT 30-1300

Brackets for V10, V20

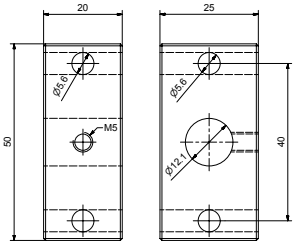




153-00547

Part number / Article number	MP 45 / 543-11003
Description	Mounting plate for mounting rod Material: anodised aluminium
Suitable for	MST 45-xx





153-01000

Part number / Article number	MB ST1 / 661-01002
Description	Mounting for mounting rod with clamping screw Material: aluminium
Suitable for	MST 45-20 MST 45-30 MST 45-40



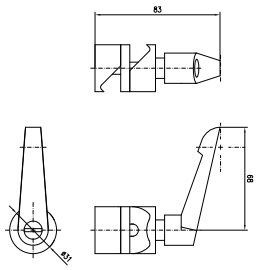


x = 200	MST 45-20
x = 300	MST 45-30
x = 400	MST 45-40

153-00545

Part number / Article number	MST 45-20 / 543-11005 MST 45-30 / 543-11006 MST 45-40 / 543-11007
Description	Mounting rod with M6 internal thread Material: stainless steel
Suitable for	MP 45, MB ST 1, MG 45, MB 45, MZ 45

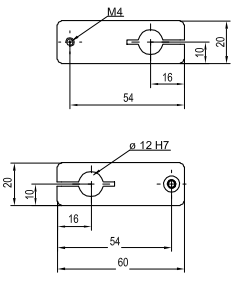




153-00776

Part number / Article number	MG 45 / 543-11008
Description	Mounting hinge for mounting rod Material: anodised aluminium, steel screw with plastic handle
Suitable for	MST 45-xx

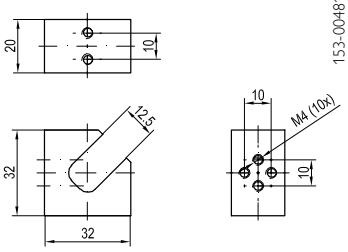




153-00546

Part number / Article number	MZ 45 / 543-11004
Description	Intermediate mounting piece for mounting rod Material: anodised aluminium
Suitable for	MST 45-xx





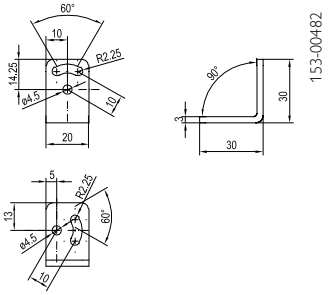
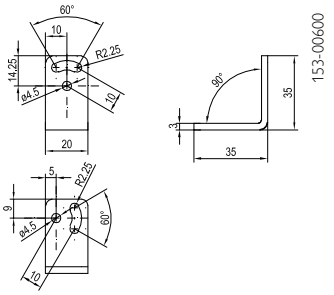
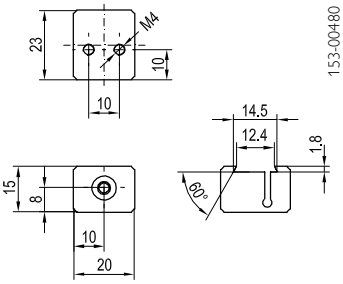
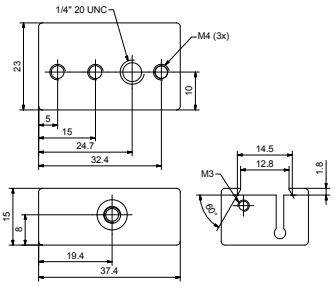
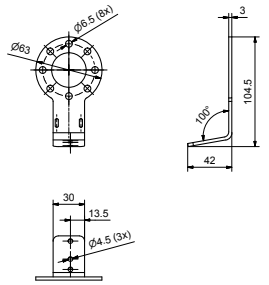
153-00481

Part number / Article number	MB 45 / 543-11002
Description	Mounting block for mounting rod Material: anodised aluminium
Suitable for	MST 45-xx MA 45 MA 45 L

A

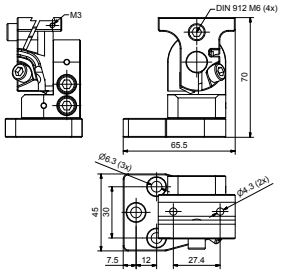
Accessories

Brackets

Brackets for V10, V20 (Cont.)			
	 153-00482	Part number / Article number Description Suitable for	MA 45 / 543-11001 Mounting angle Material: stainless steel V2A MK 45 MK 45 L MB 45
	 153-00600	Part number / Article number Description Suitable for	MA 45 L / 543-11013 Mounting angle, long Material: stainless steel V2A MK 45 MK 45 L MB 45
	 153-00480	Part number / Article number Description Suitable for	MK 45 / 543-11000 Mounting clamp, dovetail Material: anodised aluminium Screw: steel V10 / V20
	 153-01286	Part number / Article number Description Suitable for	MK 45 L / 543-11021 Mounting clamp, dovetail, long Material: anodised aluminium, Screw: steel V10 / V20
	 153-13535	Part number / Article number Description Suitable for	MA 45-63/105 UR / 543-11043 Mounting angle for VISOR® for UR robot Material: aluminium V10 / V20

Brackets for V10, V20 (Cont.)

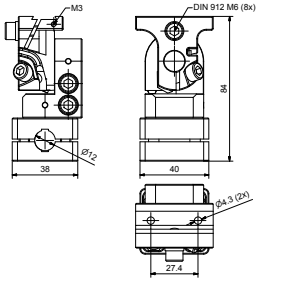




153-01181

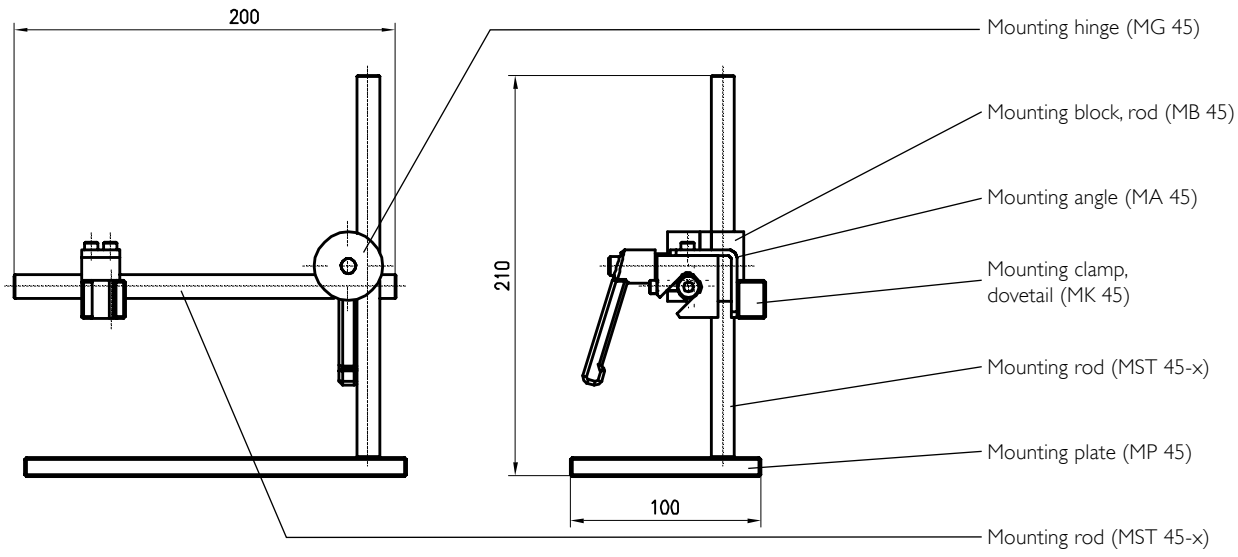
Part number / Article number	MG 3A / 543-11024
Description	Mounting hinge with 3 axes and drilled hole for mounting rod Material: anodised aluminium
Suitable for	V10 / V20





153-12553

Part number / Article number	MG 3A-MST12 / 543-11034
Description	Mounting hinge with 3 axes for fixing at mounting rods 12 mm Material: anodised aluminium
Suitable for	V10 / V20

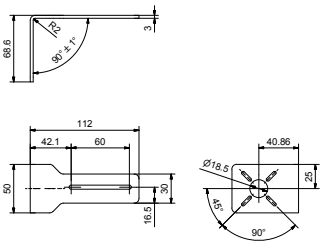
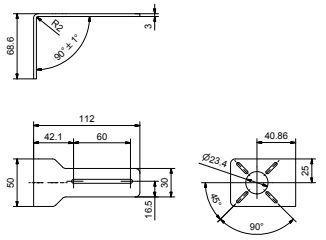
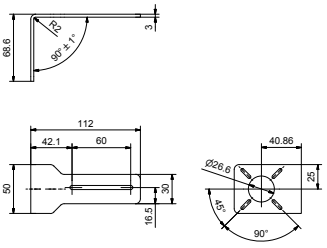
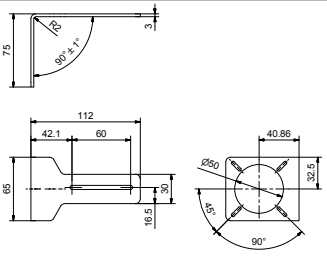
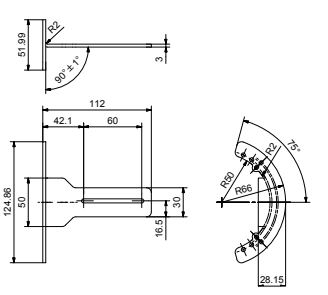


153-00435

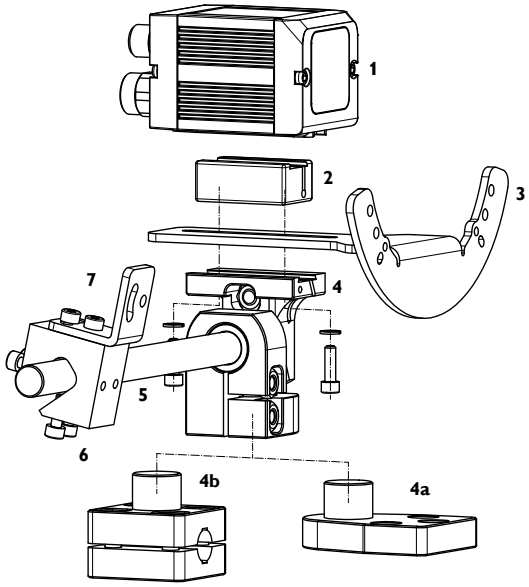
A

Accessories

Brackets

Brackets for illumination			
	 153-00707	Part number / Article number Description Suitable for	MA LR-18/112 / 543-11016 Angle bracket for lighting, Ø 18 mm Length: 112 mm Material: nickel-plated steel LR 32 x-24-KFL5 LD 50 xD-24-KFL5
	 153-00721	Part number / Article number Description Suitable for	MA LR-23/112 / 543-11019 Angle bracket for lighting, Ø 23 mm Length: 112 mm Material: nickel-plated steel LR 56 x-24-KFL5 LR 70 xD-24-KFL5 LR 70 xID-24-KFL5
	 153-00722	Part number / Article number Description Suitable for	MA LR-26/112 / 543-11017 Angle bracket for lighting, Ø 26 mm Length: 112 mm Material: nickel-plated steel LR 50 xW-24-KFL5 LR 70 x-24-KFL5
	 153-00723	Part number / Article number Description Suitable for	MA LR-50/112 / 543-11018 Angle bracket for lighting, Ø 50 mm Length: 112 mm Material: nickel-plated steel LR 74 xW-24-KFL5 LR 75 xI-24-KFL5 LR 90 xW-24-KFL5 LR 100 xID-24-KFL5
	 153-00724	Part number / Article number Description Suitable for	MA LR-100/112 / 543-11015 Angle bracket for lighting, Ø 100 mm Length: 112 mm Material: nickel-plated steel LM 100 WWK-24Q4-2L12 LM 100 RWK-24Q4-2L12 LR 100 xD-24-KFL5 LR 130 xI-24-KFL5 LR 132 xW-24-KFL LFR 115 xD-24-2L12

Brackets for illumination (Cont.)



155-01930

1 V10,V20

2 Mounting clamp, dovetail, long
MK 45 L/ 543-11021

3 Angle bracket for lighting:
MA LR-100/112 / 543-11015
MA LR-18/112 / 543-11016
MA LR-26/112 / 543-11017
MA LR-50/112 / 543-11018
MA LR-23/112 / 543-11019

4 Mounting hinge with 3 axes
*for fixing at mounting rods 12 mm
4a MG 3A / 543-11024
4b *MG 3A-MST12 / 543-11034

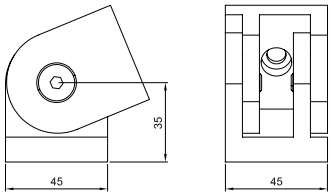
5 Mounting Rod MST
MST 45-20 / 543-11005
MST 45-30 / 543-11006
MST 45-40 / 543-11007

6 Mounting block MB / 45 543-11002

7 Mounting angle MA 45 / 543-11001
Mounting angle MA 45L / 543-11013

Brackets for light strips, High Power, LBxxx

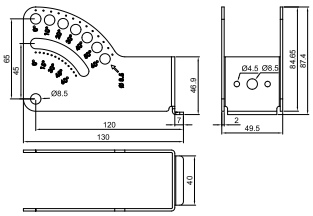




153-01178

Part number / Article number	MG LB L / 543-11025
Description	Mounting hinge light strip long Material: nickel-plated steel
Suitable for	Light strips High Power, LBxxx





153-01179

Part number / Article number	MG LB LL / 543-11026
Description	Mounting angle light strip long, lite Material: anodised aluminium
Suitable for	Light strips High Power, LBxxx

A

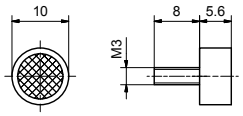
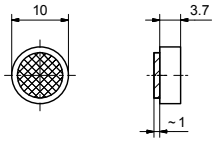
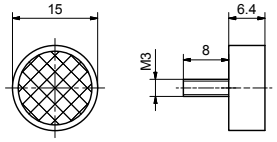
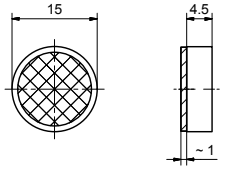
Accessories

Reflectors

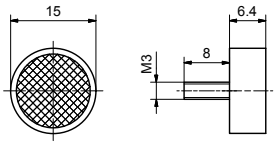
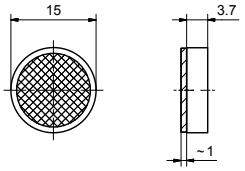
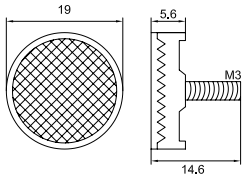
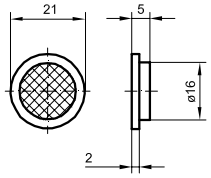
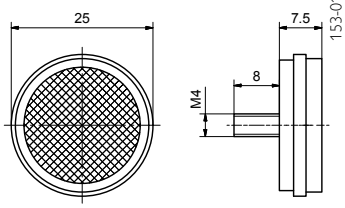
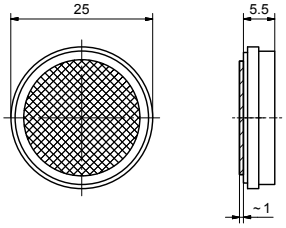


- Reflectors
- Lenses / Protective casings
- Illumination

Reflectors for Photoelectric retro-reflective sensor

	153-01197 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 10L / 904-51653 Reflector in housing Ø 10 x 5.6 mm Grub screw M3, centred -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	153-01198 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 10LK / 904-51654 Reflector in housing Ø 10 x 3.7 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	153-01199 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 15 / 904-51655 Reflector in housing Ø 15 x 6.4 mm Grub screw M3, centred -20 … +60 °C Photoelectric retro-reflective sensor (LED)
	153-01200 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 15K / 904-51656 Reflector in housing Ø 15 x 4.5 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (LED)

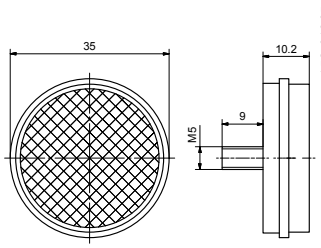
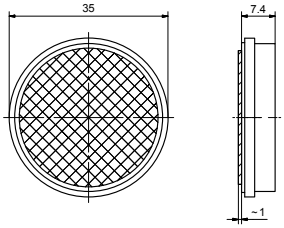
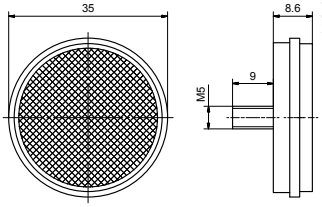
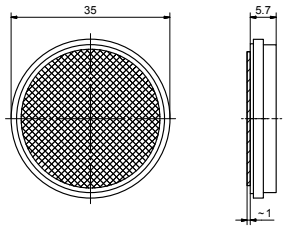
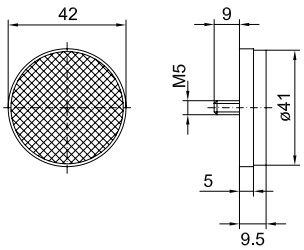
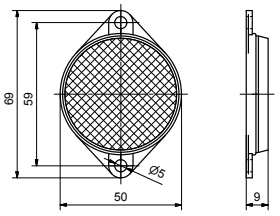
Reflectors for Photoelectric retro-reflective sensor (Cont.)

	153-01201 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 15L / 904-51657 Reflector in housing Ø 15 x 6.4 mm Grub screw M3, centred -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	153-01202 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 15LK / 904-51658 Reflector in housing Ø 15 x 3.7 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	153-01014 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD2-G / 904-51567 Reflector in housing Ø 19 x 5.6 mm Grub screw M3, centred -20 … +60 °C Photoelectric retro-reflective sensor (LED)
	153-00066 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD2 / 904-51534 Reflector in housing Ø 21 x 5 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (LED)
	153-01203 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 25L / 904-51659 Reflector in housing Ø 25 x 7.5 mm Grub screw M4, centred -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	153-01204 	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 25LK / 904-51660 Reflector in housing Ø 25 x 5.5 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (laser)

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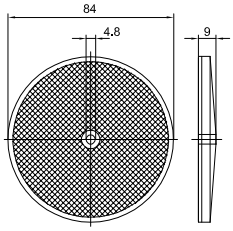
Accessories

Reflectors

Reflectors for Photoelectric retro-reflective sensor (Cont.)			
	 153-01205	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 35 / 904-51661 Reflector in housing Ø 35 x 10.2 mm Grub screw M5, centred -20 … +60 °C Photoelectric retro-reflective sensor (LED)
	 153-01206	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 35K / 904-51662 Reflector in housing Ø 35 x 7.4 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (LED)
	 153-01207	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 35L / 904-51663 Reflector in housing Ø 35 x 8.6 mm Grub screw M5, centred -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	 153-01208	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD 35LK / 904-51664 Reflector in housing Ø 35 x 5.7 mm Self-adhesive -20 … +60 °C Photoelectric retro-reflective sensor (laser)
	 153-00067	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD4 / 904-51535 Reflector in housing Ø 42 x 9.5 mm Grub screw M5, centred -20 … +60 °C Photoelectric retro-reflective sensor (LED)
	 153-00355	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RD46 / 904-51572 Reflector in housing Ø 46 x 9 mm 2 mounting holes -20 … +60 °C Photoelectric retro-reflective sensor (LED)

Reflectors for Photoelectric retro-reflective sensor (Cont.)

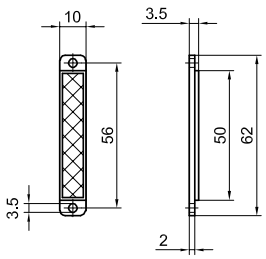




153-00070

Part number / Article number	RD8 / 904-51531
Description	Reflector in housing
Dimensions	Ø 84 x 9 mm
Mounting	1 mounting hole, centred
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (LED)

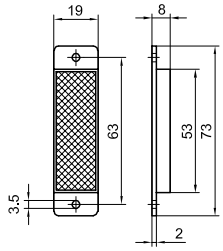




153-00280

Part number / Article number	R1L / 904-51559
Description	Reflector in housing
Dimensions	10 x 62 x 3.5 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

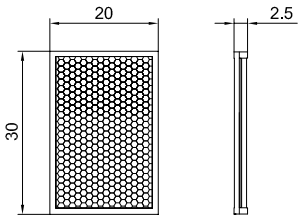




153-00068

Part number / Article number	R1 / 904-51532
Description	Reflector in housing
Dimensions	19 x 73 x 8 mm
Mounting	2 mounting holes M3
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (LED)

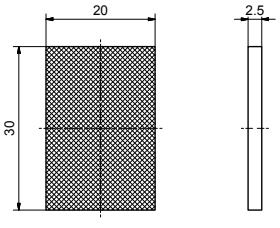




153-00772

Part number / Article number	R3-2LK / 904-51588
Description	Reflector in housing
Dimensions	20 x 30 x 2.5 mm
Mounting	Self-adhesive
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

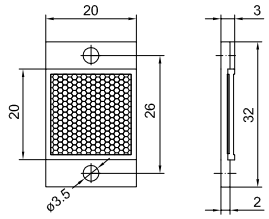




153-01047

Part number / Article number	R3-2LK1 / 904-51596
Description	Reflector in housing with very fine structure
Dimensions	20 x 30 x 2.5 mm
Mounting	Self-adhesive
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)





153-00773

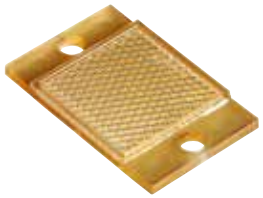
Part number / Article number	R2-2LB / 904-51586
Description	Reflector in housing
Dimensions	20 x 32 x 3 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

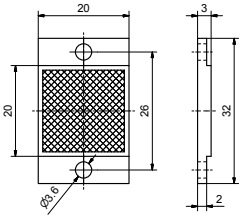
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Accessories

Reflectors

Reflectors for Photoelectric retro-reflective sensor (Cont.)

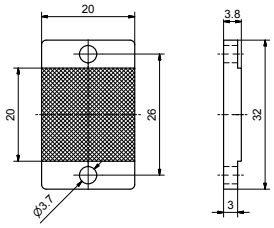




153-01210

Part number / Article number	R3-2LBC / 904-51666
Description	Reflector, chemically resistant for critical cleaning processes
Dimensions	20 x 32 x 3 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

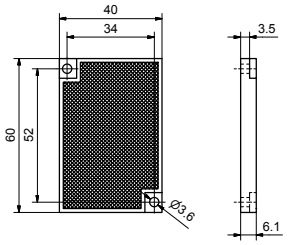




153-01046

Part number / Article number	R2-2LB1 / 904-51595
Description	Reflector in housing,with very fine structure
Dimensions	20 x 32 x 3.8 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

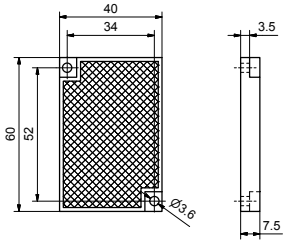




153-01196

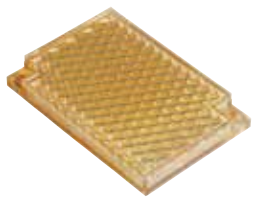
Part number / Article number	R4-6LB / 904-51652
Description	Reflector in housing
Dimensions	40 x 60 x 6.1 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

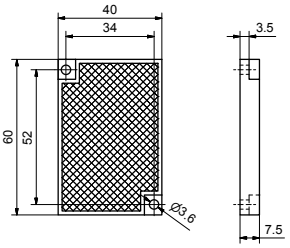




153-01195

Part number / Article number	R4-6B / 904-51651
Description	Reflector in housing
Dimensions	40 x 60 x 7.5 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (LED)

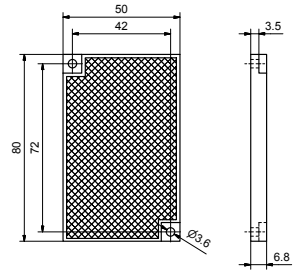




153-01209

Part number / Article number	R4-6BC / 904-51665
Description	Reflector, chemically resistant for critical cleaning processes
Dimensions	40 x 60 x 7.5 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (LED)



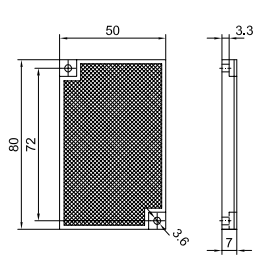


153-01194

Part number / Article number	R5-7B / 904-51650
Description	Reflector in housing
Dimensions	50 x 70 x 6.8 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (LED)

Reflectors for Photoelectric retro-reflective sensor (Cont.)

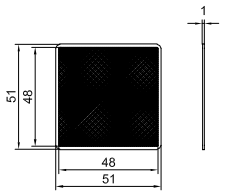




153-00544

Part number / Article number	R5-8/L / 904-51576
Description	Reflector in housing
Dimensions	50 x 80 x 7 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

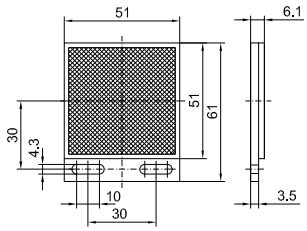




153-00701

Part number / Article number	RF-50 KL / 904-51590
Description	Reflective foil
Dimensions	51 x 51 mm
Mounting	Self-adhesive
Temperature range	-40 … +70 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

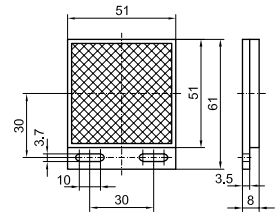




153-00242

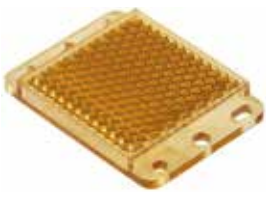
Part number / Article number	R5L / 904-51543
Description	Reflector in housing
Dimensions	51 x 61 x 6.1 mm
Mounting	2 mounting holes (slots)
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (laser)

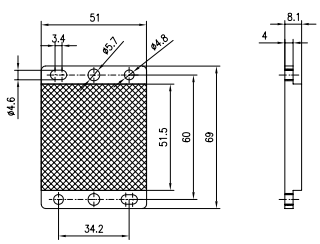




153-00069

Part number / Article number	R5 / 904-51533
Description	Reflector in housing
Dimensions	51 x 61 x 8 mm
Mounting	2 mounting holes
Temperature range	-20 … +60 °C
Suitable for	Photoelectric retro-reflective sensor (LED)



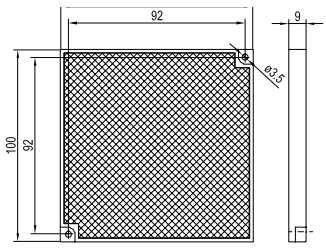


153-00816

Part number / Article number	R50 BC / 904-51641
Description	Reflector, chemically resistant for critical cleaning processes
Dimensions	51 x 69 x 8.1 mm
Mounting	6 mounting holes
Temperature range	-20 … +140 °C
Suitable for	Photoelectric retro-reflective sensor (LED)

ECOLAB





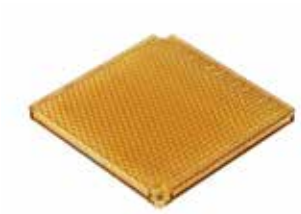
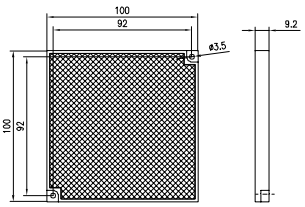
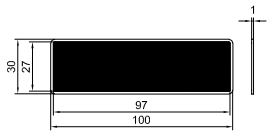
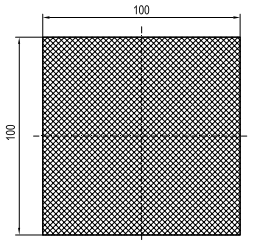
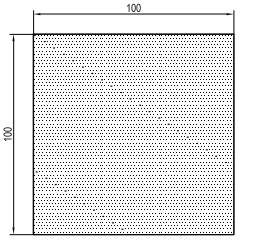
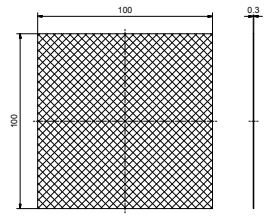
153-00557

Part number / Article number	R10 / 904-51637 R10 / 2 (2 x R10) / 904-51636
Description	Reflector in housing
Dimensions	100 x 100 x 9 mm
Mounting	2 mounting holes
Temperature range	-40 … +70 °C
Suitable for	Photoelectric retro-reflective sensor (LED) FR 85

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Accessories

Reflectors

Reflectors for Photoelectric retro-reflective sensor (Cont.)			
	 153-00817	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	R100 BC / 904-51642 Reflector, chemically resistant for critical cleaning processes 100 x 100 x 9.2 mm 2 mounting holes -20 … +140 °C Photoelectric retro-reflective sensor (LED) ECOLAB®
	 153-00950	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RF-30x100 KL / 904-51592 Reflective foil 100 x 30 mm Self-adhesive -40 … +70 °C Photoelectric retro-reflective sensor (laser)
	 153-00071	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RF 10 / 904-51536 Reflective foil 100 x 100 mm Self-adhesive -34 … +70 °C Photoelectric retro-reflective sensor (LED)
	 153-00556	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RF 10C / 904-51633 Reflective foil for FT 50 C color sensor 100 x 100 mm Self-adhesive -40 … +70 °C FT 50 C
	 153-01125	Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RF-100 KL / 904-51644 Reflective foil 100 x 100 mm, to cut to size 100 x 100 mm Self-adhesive -40 … +70 °C Photoelectric retro-reflective sensor (laser)

Reflectors for Photoelectric retro-reflective sensor (Cont.)



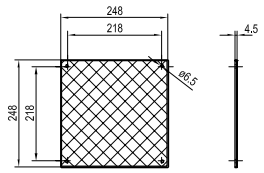


153-01015

Part number / Article number	RF 775x 100 mm / 904-51643
Description	RF 775x 200 mm / 904-51645
	RF 775x 300 mm / 904-51646
	RF 775x 400 mm / 904-51647
	RF 775x 500 mm / 904-51648
	Reflective foil, weatherproof
Dimensions	775 x ... mm
Mounting	Self-adhesive
Temperature range	-40 … +70°C
Suitable for	Photoelectric retro-reflective sensor (LED)

Reflectors für time-of-flight devices (Cont.)

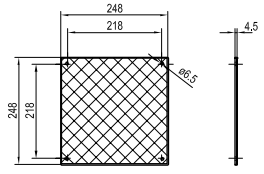




153-00483

Part number / Article number	RL 250 / 904-51562
Description	Reflector for ranges up to 50 m / 70 m
Dimensions	248 x 248 x 4.5 mm
Mounting	4 mounting holes
Temperature range	-20 … +60 °C
Suitable for	FR 55, FR 90, FR 91

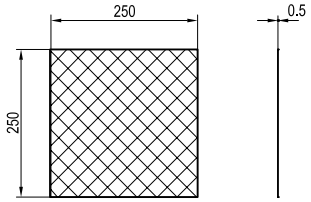




153-00483

Part number / Article number	RL 250/V / 904-51578
Description	Reflector for ranges up to 30 m
Dimensions	248 x 248 x 4.5 mm
Mounting	4 mounting holes
Temperature range	-20 … +60 °C
Suitable for	FR 92

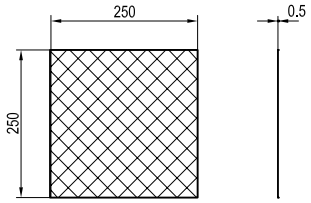




153-00488

Part number / Article number	RF 250 / 599-91009
Description	Reflective foil for ranges up to 50 m / 70 m
Dimensions	250 x 250 mm
Mounting	Self-adhesive
Temperature range	-20 … +60 °C
Suitable for	FR 55, FR 90, FR 91





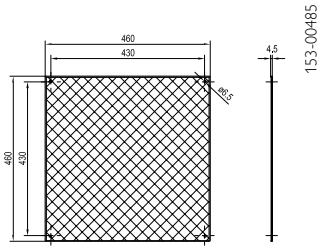
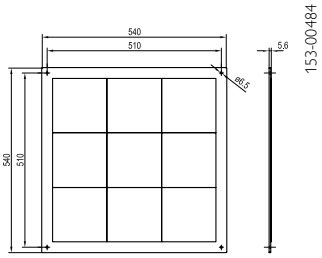
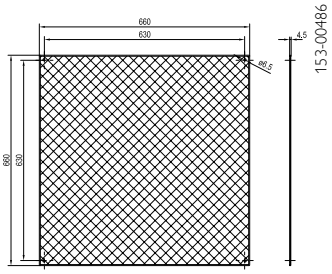
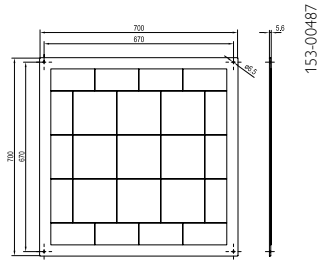
153-00488

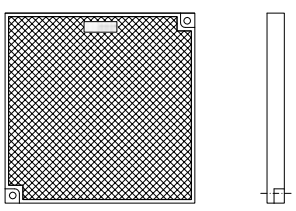
Part number / Article number	RF 250/V / 904-51579
Description	Reflective foil for ranges up to 30 m
Dimensions	250 x 250 mm
Mounting	Self-adhesive
Temperature range	-20 … +60 °C
Suitable for	FR 92

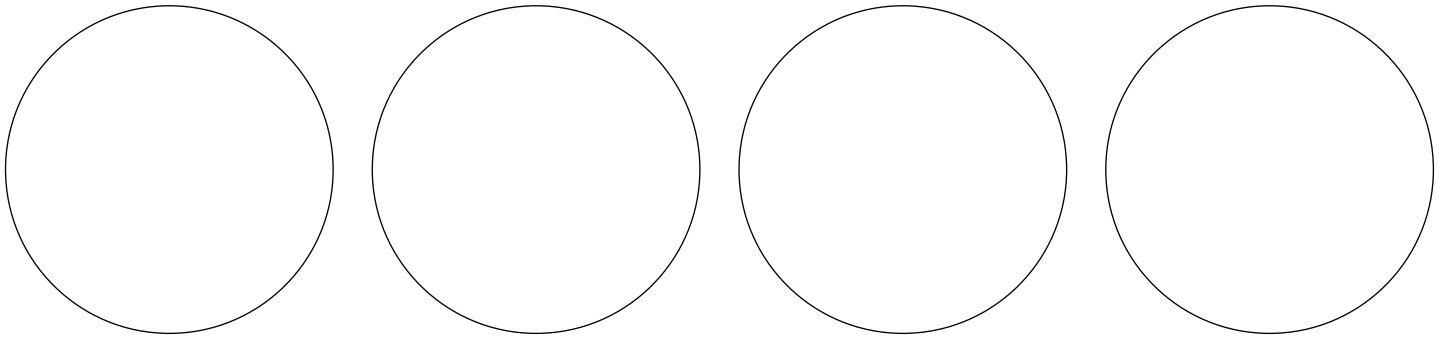
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Accessories

Reflectors

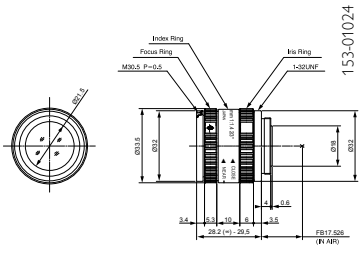
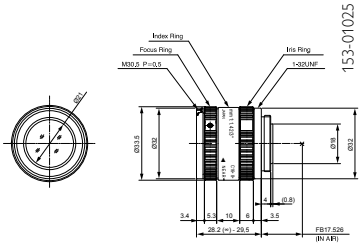
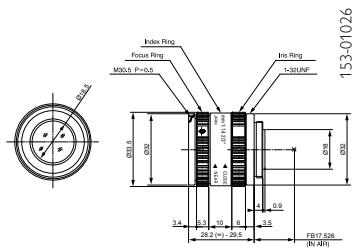
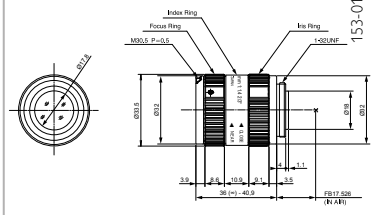
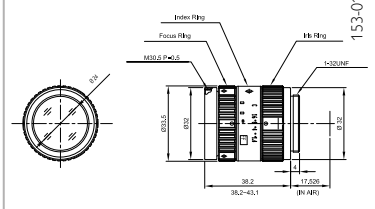
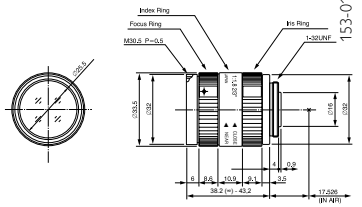
Reflectors für time-of-flight devices (Cont.)			
		Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RL 460 / 904-51565 Reflector for ranges up to 80 m 460 x 460 x 4.5 m 4 mounting holes -20 … +60 °C FR 90, FR 91, FR 92
		Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RL 540 / 904-51571 Reflector in housing for ranges up to 200 m 540 x 540 x 5.6 mm 4 mounting holes -20 … +60 °C FR 90, FR 91, FR 92
		Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RL 660 / 904-51564 Reflector for ranges up to 80 m 660 x 660 x 4.5 mm 4 mounting holes -20 … +60 °C FR 90, FR 91, FR 92
		Part number / Article number Description Dimensions Mounting Temperature range Suitable for	RL 700 / 904-51570 Reflector in housing for ranges up to 250 m 700 x 700 x 5,6 mm 4 mounting holes -20 … +60 °C FR 90, FR 91, FR 92

Mounting of the reflectors as shown in the dimensional drawing or alignment according to labeling on reflector front




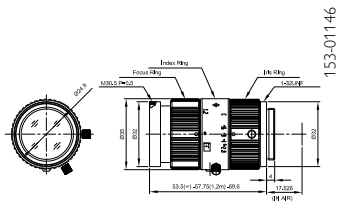
Accessories

Lenses

Lenses, C-mount			
	 153-01024	Part number / Article number	LO C 8 / 526-51513
		Description	C-mount lens 8 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 33.5 mm Max. length: 33.5 mm Weight: 70 g
		Suitable for	V10 / V20 C-Mount
	 153-01025	Part number / Article number	LO C 12 / 526-51514
		Description	C-mount lens 12 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 33.5 mm Max. length: 33.5 mm Weight: 65 g
		Suitable for	V10 / V20 C-Mount
	 153-01026	Part number / Article number	LO C 16 / 526-51515
		Description	C-mount lens 16 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 33.5 mm Max. length: 33.5 mm Weight: 65 g
		Suitable for	V10 / V20 C-Mount
	 153-01027	Part number / Article number	LO C 25 / 526-51516
		Description	C-mount lens 25 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 33.5 mm Max. length: 44.9 mm Weight: 75 g
		Suitable for	V10 / V20 C-Mount
	 153-01145	Part number / Article number	LO C 35 / 526-51525
		Description	C-mount lens 35 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 33.5 mm Max. length: 47.5 mm Weight: 87 g
		Suitable for	V10 / V20 C-Mount
	 153-01028	Part number / Article number	LO C 50 / 526-51113
		Description	C-mount lens 50 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 33.5 mm Max. length: 47.2 mm Weight: 90 g
		Suitable for	V10 / V20 C-Mount

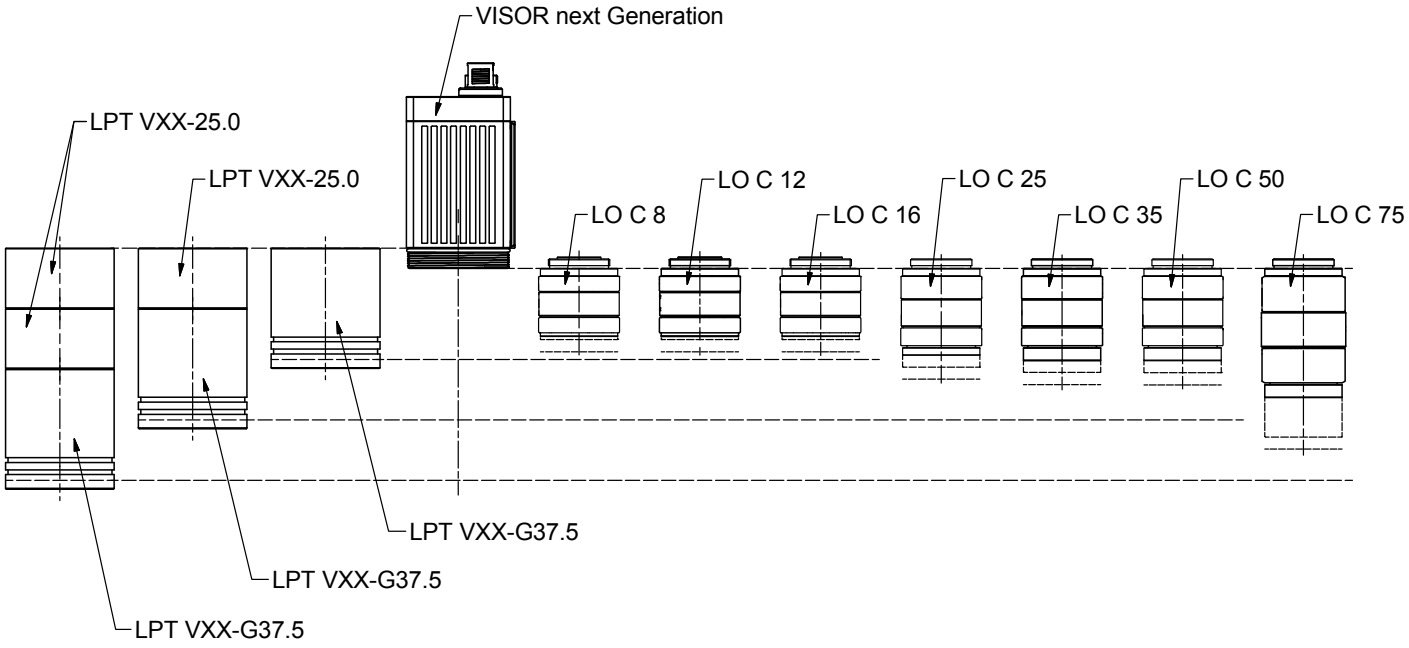
Lenses, C-mount (Cont.)





Part number / Article number	LO C 75 / 526-51116
Description	C-mount lens 75 mm focal length Aperture/focus: manual Filter thread: 30.5/0.5 Diameter: 35.0 mm Max. length: 73.6 mm Weight: 113 g
Suitable for	V10 / V20 C-Mount

Possible combinations for C-mount protective housings



Accessories, lenses





Part number	Article number	Description
LR 5	543-11011	Intermediate ring 5 mm
ETS	527-51143	Intermediate ring set: 1 x 0,5 mm 1 x 10 mm 2 x 1 mm 1 x 20 mm 1 x 5 mm 1 x 40 mm





Part number	Article number	Description
LOF-BP-R635-30,5x0,5	533-01015	Red filter for C-mount lens, Bandpass 610 - 660 nm
LOF-LP-IR850-30,5x0,5	533-01010	Infrared filter for C-mount lens, Transmission > 825 nm
LOF-PF-30,5 x 0,5	526-51531	Polarisation filter for C-mount lens

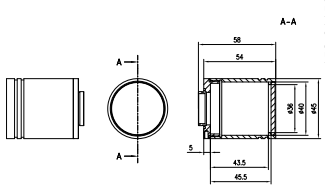
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Accessories

Protective casing and polarizer glasses

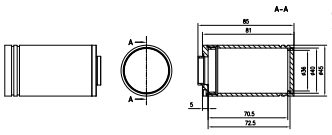
C-mount protective casing for VISOR® generation 1





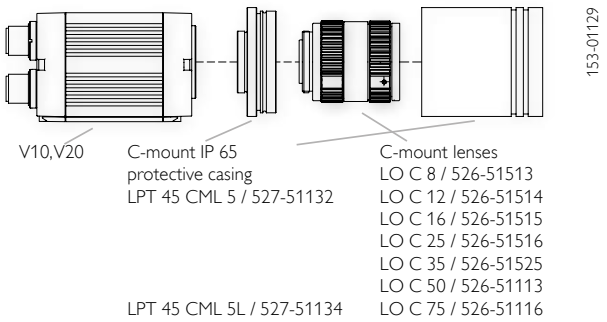
Part number / Article number	LPT 45 CML 5 / 527-51132
Description	C-mount IP 65 protective casing Flange 5 mm Maximum lens dimensions: diameter: 38 mm length: 42 mm
Suitable for	V10 / V20 C-Mount





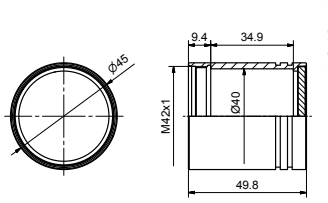
Part number / Article number	LPT 45 CML 5L / 527-51134
Description	C-mount IP 65 protective casing Flange 5 mm Maximum lens dimensions: diameter: 38 mm length: 60 mm
Suitable for	V10 / V20 C-Mount





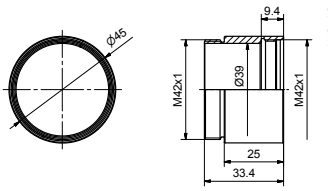
C-mount protective casing for VISOR® new generation





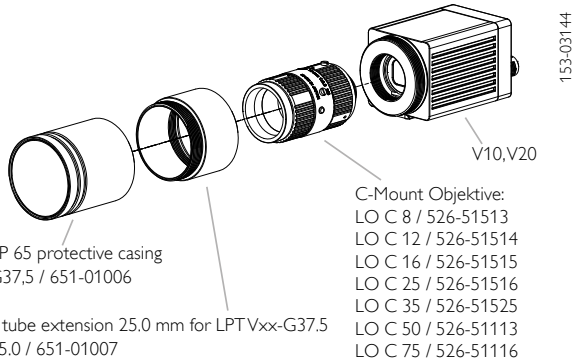
Part number / Article number	LPT Vxx-G37.5 / 651-01006
Description	C-mount IP 65 protective casing Protective tube for Vx0 C-Mount 37.5 mm
Suitable for	V10 / V20 C-Mount





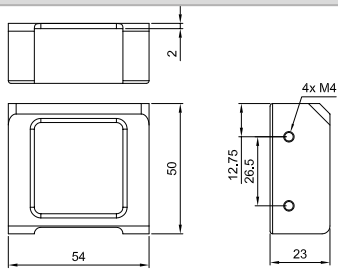
Part number / Article number	LPT Vxx-25.0 / 651-01007
Description	Protective tube extension 25.0 mm for LPT Vxx-G37.5
Suitable for	V10 / V20 C-Mount





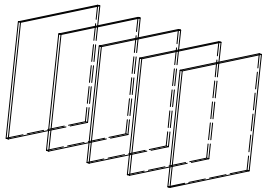
Protective casing and polarizer glasses for VISOR® generation 1 (Cont.)

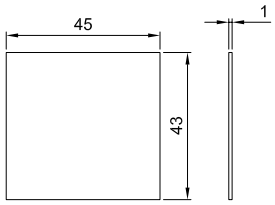




153-01172

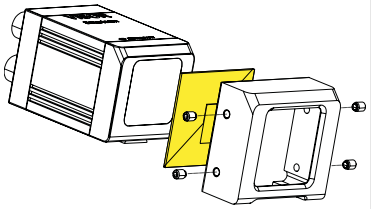
Part number / Article number	LPT W50 / 527-51135
Description	Spark protection V10/V20 Material: anodised aluminium incl. front screen, glass
Suitable for	V10 /V20

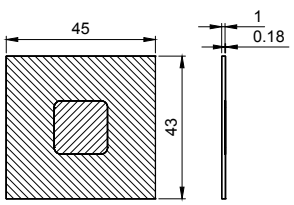




153-01173

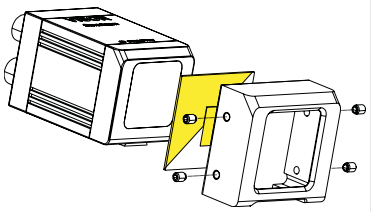
Part number / Article number	LPT S5 / 527-51136
Description	Replacement front screen, set of 5 pcs for LPT W50 Material: glass
Suitable for	LPT W50

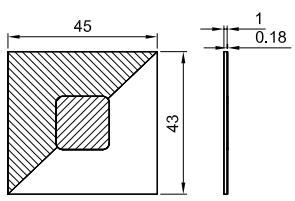




153-01193

Part number / Article number	LPF S1 / 527-51139
Description	Polarizer glass for welding spark protection (100 % coverage) Material: coated glass
Suitable for	V10 /V20





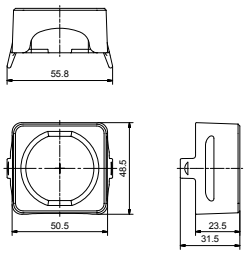
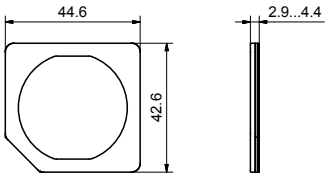
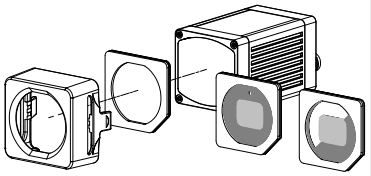
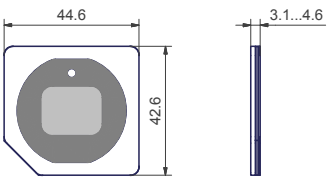
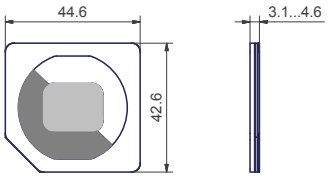
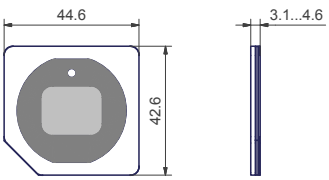
153-01192

Part number / Article number	LPF S2 / 527-51140
Description	Polarizer glass for welding spark protection (50 % coverage, switchable) Material: coated glass
Suitable for	V10 /V20

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Accessories

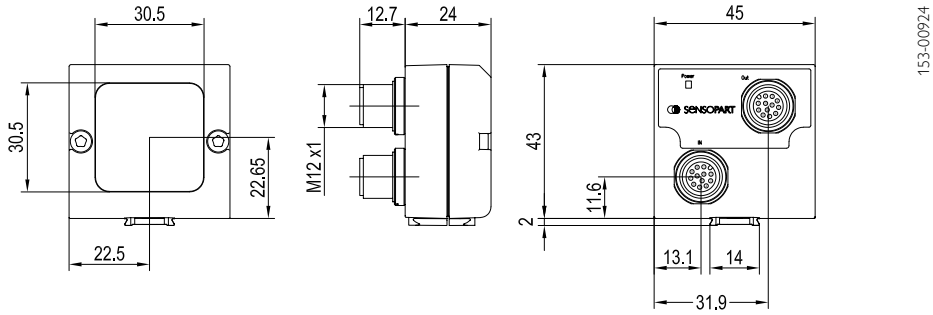
Protective casing and polarizer glasses

Protective casing and polarizer glasses for VISOR® new generation			
	 153-13556	Part number / Article number Description Suitable for	LPC Vxx / 651-01001 Removable protective casing for Vx0 with integrated lens/lighting V10 / V20
	 153-13559	Part number / Article number Description Suitable for	LPC Vxx S1-5 / 651-01002 Replacement panels (glass) for LPC Vxx, set of 5 pieces Material: coated glass LPC Vxx
	 153-13557	Part number / Article number Description Suitable for	LPF Vxx S1 / 651-01003 Polarising filter panel for LPC Vxx (100 % coverage) Material: coated glass LPC Vxx
	 153-13558	Part number / Article number Description Suitable for	LPF Vxx S2 / 651-01004 Polarising filter panel for LPC Vxx (50 % coverage, switchable) Material: coated glassLPC Vxx LPC Vxx
	 153-13557	Part number / Article number Description Suitable for	LPF Vxx S1-5 / 651-01005 Polarising filter panel for LPC Vxx (100 % coverage), set of 5 pieces Material: coated glass LPC Vxx

Surface light for V10, V20



Part number	Article number	Description
LF45 W-24-2L12	525-51147	Surface light, V10 / V20, white, 12-pin
LF45 R-24-2L12	525-51148	Surface light, V10 / V20, red, 12-pin
LF45 IR-24-2L12	525-51149	Surface light, V10 / V20, infrared, 12-pin*



* External IR illumination can only be combined with IR Types or C-Mount sensors.
LED area lighting for incidental illumination in IP67 housings. Can be cascaded to illuminate from several directions.
No switching amplifier required.

Spot illumination V10, V20



Part number	Article number.	Description
LS 55 x 46 WK-24-A13 2L12	532-51101	Illumination, V10/V20, Spot, LS 55x46, white, 2 x M12/12-pin
LS 55 x 46 RK-24-A13 2L12	532-51102	Illumination, V10/V20, Spot, LS 55x46, red, 2 x M12/12-pin
LS 55 x 46 IRK-24-A13 2L12	532-51103	Illumination, V10/V20, Spot, LS 55x46, infrared, 2 x M12/12-pin
		Does not require switching amplifier

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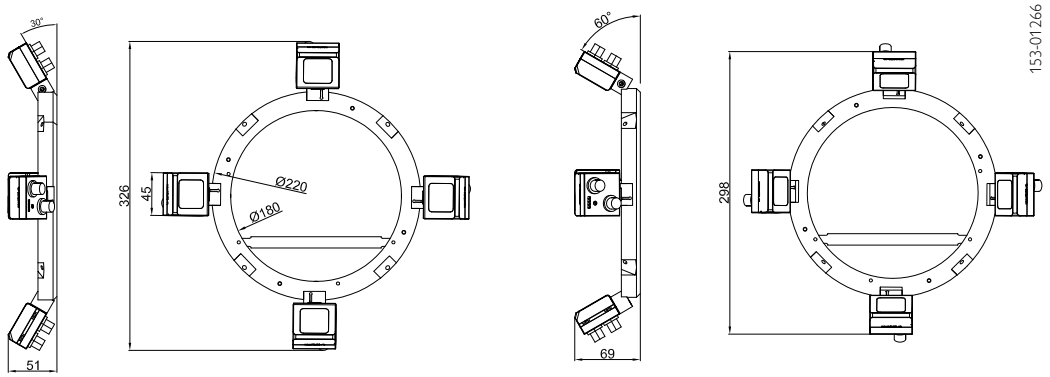
Accessories

Illumination

Multishot



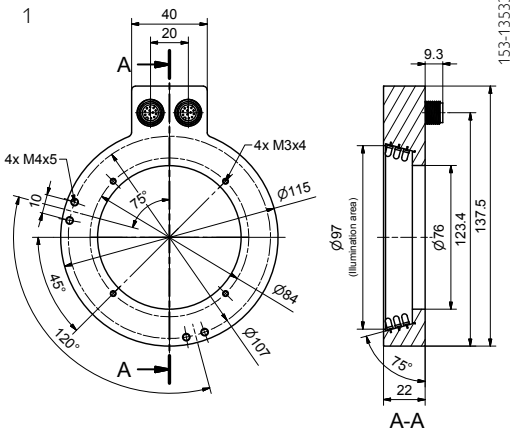
Part number	Article number	Description
LM 300 WWK-24Q4-2L12	525-51158	Illumination Mulitshot, 4 x LF 45 white, including MG 3A for VISOR®, mounting, apre-assembled on retaining ring and pre-wired with 3 special cables, beam angle 60°, changeable to 30°
LM 300 RWK-24Q4-2L12	525-51159	Illumination Mulitshot, 4 x LF 45 red, including MG 3A for VISOR®, mounting, apre-assembled on retaining ring and pre-wired with 3 special cables, beam angle 60°, changeable to 30°
LM 300 IWK-24Q4-2L12	525-51160	Illumination Mulitshot, 4 x LF 45 infrared, including MG 3A for VISOR®, mounting, apre-assembled on retaining ring and pre-wired with 3 special cables, beam angle 60°, changeable to 30°



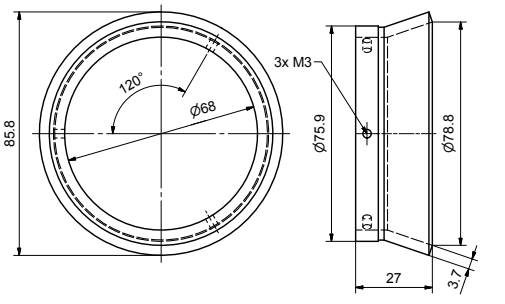


Part number	Article number	Description	Draw
LM 100 WWK-24Q4-2L12	532-51096	Ring light, angled, 100 mm, white, individual control of 4 segments for Multishot, connection with illumination cable without LA 45	1
LM 100 RWK-24Q4-2L12	532-51097	Ring light, angled, 100 mm, red, individual control of 4 segments for Multishot, connection with illumination cable without LA 45	1
LM 100 W DF	532-51098	Diffuser for LM 100, angled	2

1



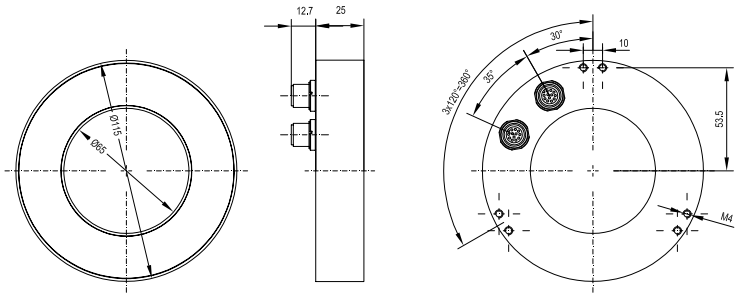
2



Ring light for V10, V20



Part number	Article number	Description	Angle bracket
LFR 115 WD-24-2L12	525-51150	Ring light, V10 / V20, white, diffuse, 12-pin	543-11015
LFR 115 RD-24-2L12	525-51151	Ring light, V10 / V20, red, diffuse, 12-pin	543-11015
LFR 115 ID-24-2L12	525-51152	Ring light, V10 / V20, infrared, diffuse, 12-pin*	543-11015
LFR 115 WK-24-2L12	525-51153	Ring light, V10 / V20, white, clear, 12-pin	543-11015
LFR 115 RK-24-2L12	525-51154	Ring light, V10 / V20, red, clear, 12-pin	543-11015
LFR 115 IK-24-2L12	525-51155	Ring light, V10 / V20, infrared, clear, 12-pin*	543-11015



153-00926

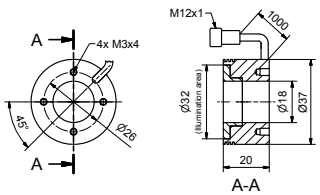
* External IR illumination is only possible for IR types or C-Mount sensors.
LED ring lighting for the incidental illumination of objects in IP67-tight housings. No switching amplifier is required and cascading is possible.

Ring light



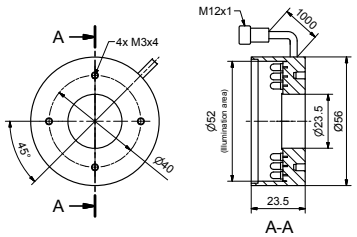
Part number	Article number	Description	Angle bracket	Draw.
LR 32 W-24-KFL5	532-51000	Ring light, 32 mm, white	543-11016	1
LR 56 W-24-KFL5	532-51001	Ring light, 56 mm, white	543-11019	2
LR 70 W-24-KFL5	532-51002	Ring light, 70 mm, white	543-11017	3
LR 32 R-24-KFL5	532-51003	Ring light, 32 mm, red	543-11016	1
LR 56 R-24-KFL5	532-51004	Ring light, 56 mm, red	543-11019	2
LR 70 R-24-KFL5	532-51005	Ring light, 70 mm, red	543-11017	3

1



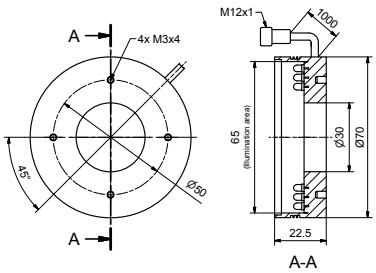
153-00726

2



153-00727

3



153-00731

LED ring lighting for the incidental illumination of objects.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

A

Accessories

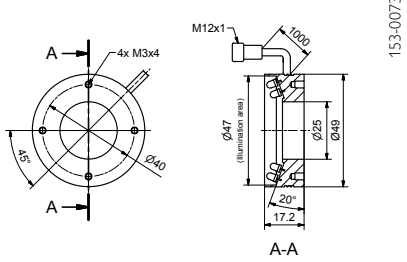
Illumination

Ring light, angled

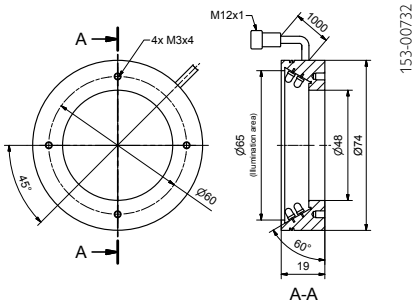


Part number	Article number	Description	Angle bracket	Draw.
LR 50 WW-24-KFL5	532-51006	Ring light, angled, 50 mm, white	543-11017	1
LR 74 WW-24-KFL5	532-51007	Ring light, angled, 74 mm, white	543-11018	2
LR 90 WW-24-KFL5	532-51008	Ring light, angled, 90 mm, white	543-11018	3
LR 132 WW-24-KFL5	532-51009	Ring light, angled, 132 mm, white	543-11015	4
LR 50 RW-24-KFL5	532-51010	Ring light, angled, 50 mm, red	543-11017	1
LR 74 RW-24-KFL5	532-51011	Ring light, angled, 74 mm, red	543-11018	2
LR 90 RW-24-KFL5	532-51012	Ring light, angled, 90 mm, red	543-11018	3
LR 132 RW-24-KFL5	532-51013	Ring light, angled, 132 mm, red	543-11015	4
LR 75 WI-24-KFL5	532-51014	Ring light, indirect, 75 mm, white	543-11018	5
LR 130 WI-24-KFL5	532-51015	Ring light, indirect, 130 mm, white	543-11015	6
LR 75 RI-24-KFL5	532-51016	Ring light, indirect, 75 mm, red	543-11018	5
LR 130 RI-24-KFL5	532-51017	Ring light, indirect, 130 mm, red	543-11015	6

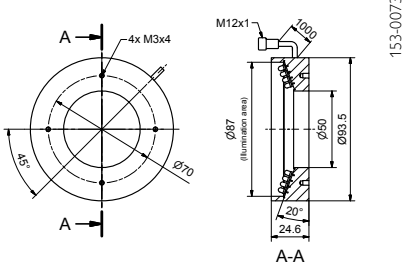
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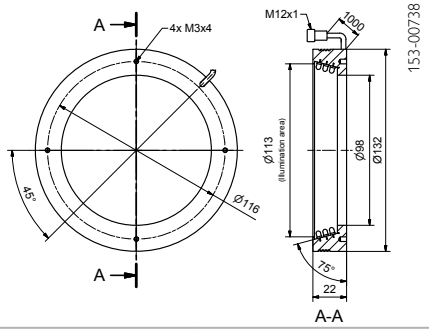
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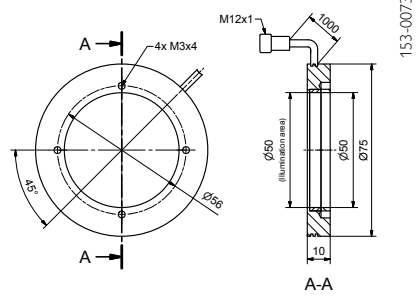
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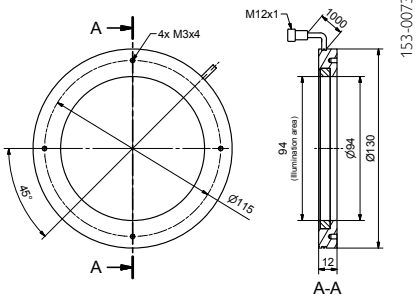
4



5



6



Funnel-shaped LED ring light for dark field illumination.

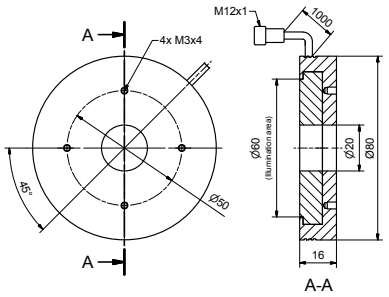
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

Ring light, indirect, diffuse



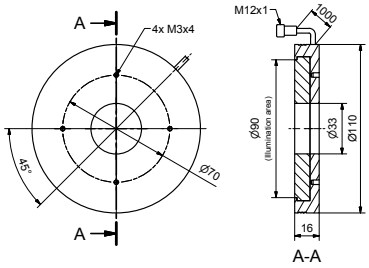
Part number	Article number	Description	Angle bracket	Draw.
LR 70 WID-24-KFL5	532-51030	Ring light, indirect, diffuse, 70 mm, white	543-11019	1
LR 100 WID-24-KFL5	532-51031	Ring light, indirect, diffuse, 100 mm, white	543-11018	2
LR 70 RID-24-KFL5	532-51032	Ring light, indirect, diffuse, 70 mm, red	543-11019	1
LR 100 RID-24-KFL5	532-51033	Ring light, indirect, diffuse, 100 mm, red	543-11018	2

1



153-00729

2



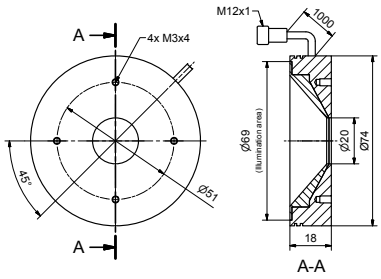
153-00735

Ring light, indirect, diffuse



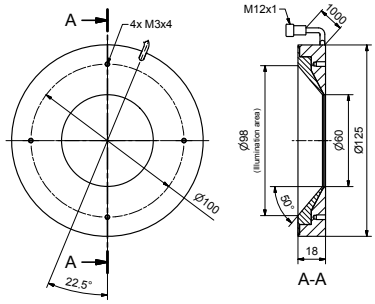
Part number	Article number	Description	Angle bracket	Draw.
LR 70 WD-24-KFL5	532-51034	Ring light, diffuse, 70 mm, white	543-11019	3
LR 100 WD-24-KFL5	532-51035	Ring light, diffuse, 100 mm, white	543-11015	4
LR 70 RD-24-KFL5	532-51036	Ring light, diffuse, 70 mm, red	543-11019	3
LR 100 RD-24-KFL5	532-51037	Ring light, diffuse, 100 mm, red	543-11015	4

3



153-00728

4



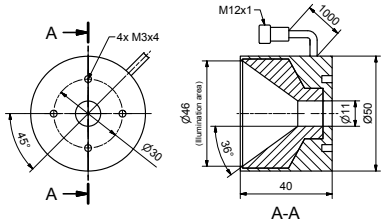
153-00736

LED ring light with LEDs shining surfacely and directly on centre of circle.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

Ring light, dome, diffuse



Part number	Article number	Description	Angle bracket
LD 50 WD-24-KFL5	532-51038	Ring light, dome, diffuse, 50 mm, white	543-11016
LD 50 RD-24-KFL5	532-51039	Ring light, dome, diffuse, 50 mm, red	543-11016



153-00704

LED ring lighting with funnel-shaped diffuser sheet for strongly reflective objects.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

A

Accessories

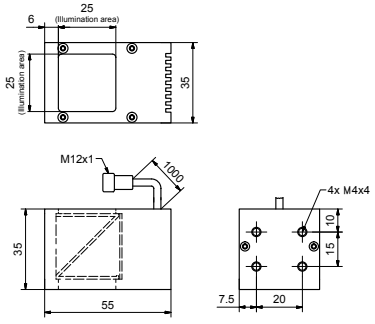
Illumination

Coaxial illumination



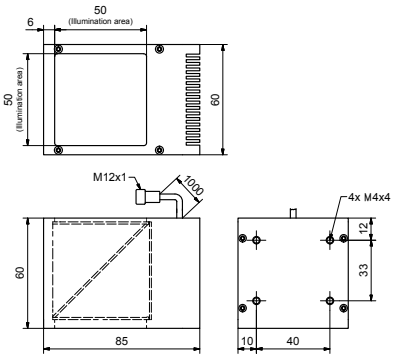
Part number	Article number	Description	Drawing
LK 25 R-24-KFL5	532-51043	Coaxial light, 25 mm, red	1
LK 46 R-24-KFL5	532-51044	Coaxial light, 46 mm, red	2

1



153-00830

2



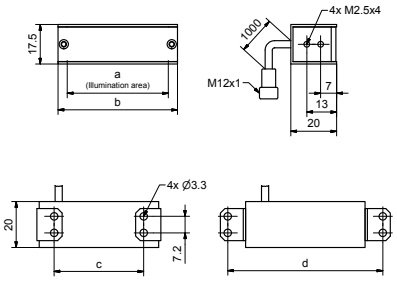
153-00831

Coaxial mirrored LED lighting for homogeneous illumination of reflected objects.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

Light strip, diffuse



Part number	Article number	Description	Type
LB 44 WD-24-KFL5	532-51026	Light strip, diffuse, 44 mm, white	1
LB 86 WD-24-KFL5	532-51027	Light strip, diffuse, 86 mm, white	2
LB 180 WD-24-KFL5	532-51049	Light strip, diffuse, 180 mm, white	3
LB 44 RD-24-KFL5	532-51028	Light strip, diffuse, 44 mm, red	1
LB 86 RD-24-KFL5	532-51029	Light strip, diffuse, 86 mm, red	2
LB 180 RD-24-KFL5	532-51052	Light strip, diffuse, 180 mm, red	3



153-00756

	Type 1	Type 2	Type 3
a	44 mm	86 mm	180 mm
b	52 mm	94.5 mm	191 mm
c	39 mm	81.5 mm	178.5 mm
d	67.5 mm	110 mm	206.5 mm

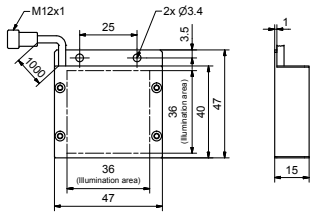
Bar-shaped light strip with diffuser sheet for indirect illumination.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

Surface light



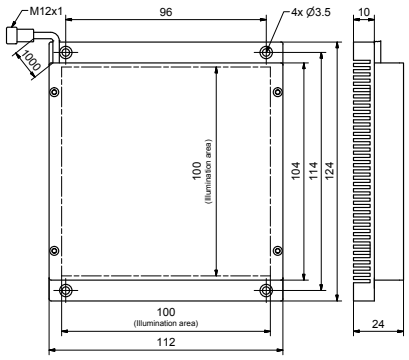
Part number	Article number	Description	Drawing
LF 36 WD-24-KFL5	532-51018	Surface light, diffuse, 36 mm, white	1
LF 51 WD-24-KFL5	532-51019	Surface light, diffuse, 51 mm, white	2
LF 100 WD-24-KFL5	532-51020	Surface light, diffuse, 100 mm, white	3
LF 200 WD-24-KFL5	532-51024	Surface light, diffuse, 200 mm, white	4
LF 36 RD-24-KFL5	532-51021	Surface light, diffuse, 36 mm, red	1
LF 51 RD-24-KFL5	532-51022	Surface light, diffuse, 51 mm, red	2
LF 100 RD-24-KFL5	532-51023	Surface light, diffuse, 100 mm, red	3
LF 200 RD-24-KFL5	532-51025	Surface light, diffuse, 200 mm, red	4

1



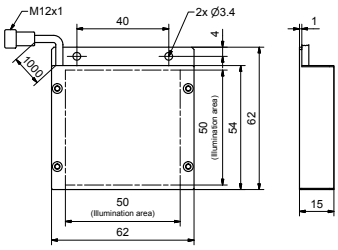
153-00758

3



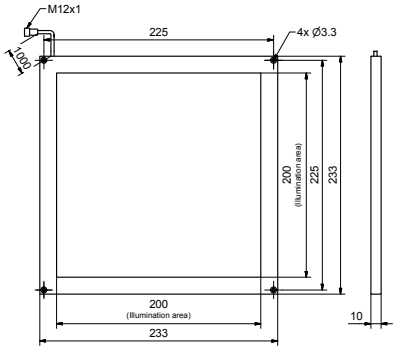
153-00762

2



153-01282

4



153-00757

Surface LED background illumination with very bright, regular surface illumination.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.

A

Accessories

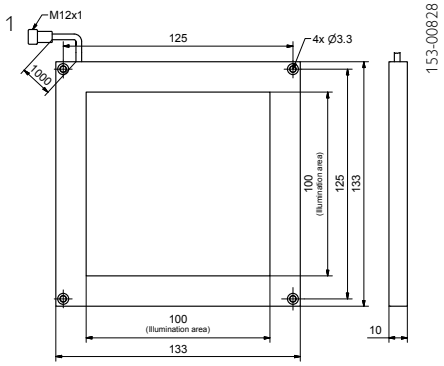
Illumination

Surface light



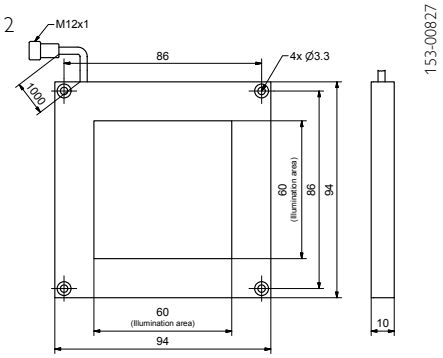
Part number	Article number	Description	Drawing
LF 100 A RD-24-KFL5	532-51040	Surface light, 100 mm, red, diffuse	1
LF 60 A RD-24-KFL5	532-51041	Surface light, 60 mm, red, diffuse	2
LF 100 A WD-24-KFL5-65	532-51042	Surface light, 100 mm, white, diffuse, IP 65	3
LF 51 PF	532-51099	Polarizer for LF 51	
LF 100 PF	532-51100	Polarizer for LF 100	

1



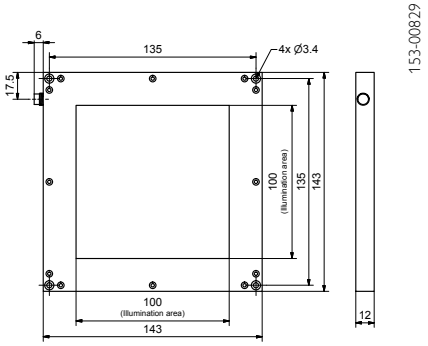
153-00828

2



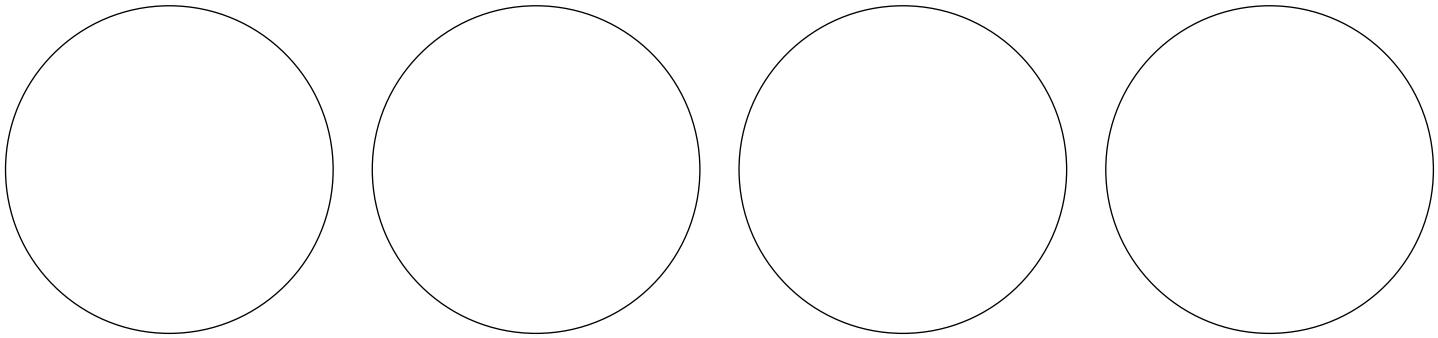
153-00827

3



153-00829

Surface LED background lighting for diffuse illumination.
Requires connection adapter for LED illumination LA 45 V(T)-24-2L12.



Accessories

Illumination

Light strips, High Power, LBxxx

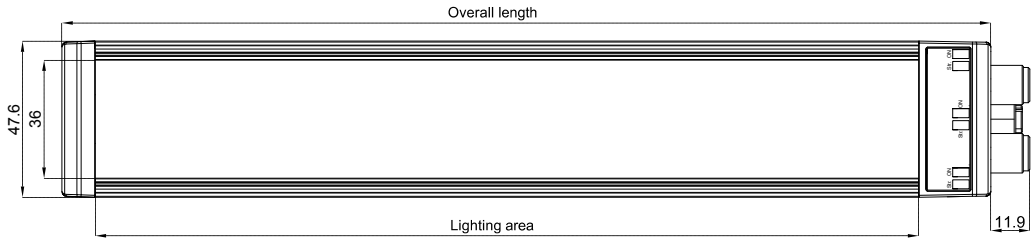


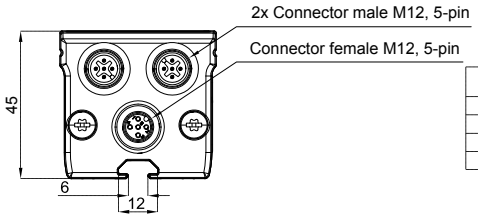
Part number	Article number	Description	Type
LB 250 WK 24 A15 3L5	532-51056	Light strip, 250 mm, white, clear glass, 24V DC, 15°, 3 x M12, 5-pin	1
LB 375 WK 24 A15 3L5	532-51057	Light strip, 375 mm, white, clear glass, 24V DC, 15°, 3 x M12, 5-pin	2
LB 625 WK 24 A15 3L5	532-51058	Light strip, 625 mm, white, clear glass, 24V DC, 15°, 3 x M12, 5-pin	3
LB 1000 WK 24 A15 3L5	532-51059	Light strip, 1000 mm, white, clear glass, 24V DC, 15°, 3 x M12, 5-pin	4
LB 250 WK 24 A35 3L5	532-51060	Light strip, 250 mm, white, clear glass, 24V DC, 35°, 3 x M12, 5-pin	1
LB 375 WK 24 A35 3L5	532-51061	Light strip, 375 mm, white, clear glass, 24V DC, 35°, 3 x M12, 5-pin	2
LB 625 WK 24 A35 3L5	532-51062	Light strip, 625 mm, white, clear glass, 24V DC, 35°, 3 x M12, 5-pin	3
LB 1000 WK 24 A35 3L5	532-51063	Light strip, 1000 mm, white, clear glass, 24V DC, 35°, 3 x M12, 5-pin	4
LB 250 RK 24 A15 3L5	532-51064	Light strip, 250 mm, red, clear glass, 24V DC, 15°, 3 x M12, 5-pin	1
LB 375 RK 24 A15 3L5	532-51065	Light strip, 375 mm, red, clear glass, 24V DC, 15°, 3 x M12, 5-pin	2
LB 625 RK 24 A15 3L5	532-51066	Light strip, 625 mm, red, clear glass, 24V DC, 15°, 3 x M12, 5-pin	3
LB 1000 RK 24 A15 3L5	532-51067	Light strip, 1000 mm, red, clear glass, 24V DC, 15°, 3 x M12, 5-pin	4
LB 250 RK 24 A35 3L5	532-51068	Light strip, 250 mm, red, clear glass, 24V DC, 35°, 3 x M12, 5-pin	1
LB 375 RK 24 A35 3L5	532-51069	Light strip, 375 mm, red, clear glass, 24V DC, 35°, 3 x M12, 5-pin	2
LB 625 RK 24 A35 3L5	532-51070	Light strip, 625 mm, red, clear glass, 24V DC, 35°, 3 x M12, 5-pin	3
LB 1000 RK 24 A35 3L5	532-51071	Light strip, 1000 mm, red, clear glass, 24V DC, 35°, 3 x M12, 5-pin	4
LB 250 IRK 24 A15 3L5	532-51055	Light strip, 250 mm, infrared, clear glass, 24V DC, 15°, 3 x M12, 5-pin	1
LB 375 IRK 24 A15 3L5	532-51072	Light strip, 375 mm, infrared, clear glass, 24V DC, 15°, 3 x M12, 5-pin	2
LB 625 IRK 24 A15 3L5	532-51073	Light strip, 625 mm, infrared, clear glass, 24V DC, 15°, 3 x M12, 5-pin	3
LB 1000 IRK 24 A15 3L5	532-51074	Light strip, 1000 mm, infrared, clear glass, 24V DC, 15°, 3 x M12, 5-pin	4
LB 250 IRK 24 A35 3L5	532-51075	Light strip, 250 mm, infrared, clear glass, 24V DC, 35°, 3 x M12, 5-pin	1
LB 375 IRK 24 A35 3L5	532-51076	Light strip, 375 mm, infrared, clear glass, 24V DC, 35°, 3 x M12, 5-pin	2
LB 625 IRK 24 A35 3L5	532-51077	Light strip, 625 mm, infrared, clear glass, 24V DC, 35°, 3 x M12, 5-pin	3
LB 1000 IRK 24 A35 3L5	532-51078	Light strip, 1000 mm, infrared, clear glass, 24V DC, 35°, 3 x M12, 5-pin	4
LB-250 DF	532-51090	Diffusor for light bar 250 mm	
LB-375 DF	532-51091	Diffusor for light bar 375 mm	
LB-625 DF	532-51092	Diffusor for light bar 625 mm	
LB-1000 DF	532-51093	Diffusor for light bar 1000 mm	

Accessories

Connection cables	From Page A-38	Brackets	From Page A-4

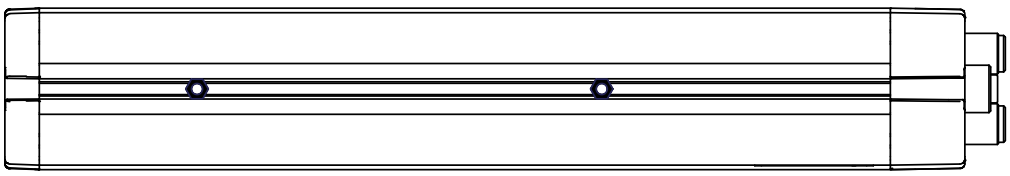
Light strips, High Power, LBxxx





Type	Overall length	Lighting area
1 / LB 250	283	251
2 / LB 375	408	376
3 / LB 625	658	626
4 / LB 1000	1033	1001

Mounting

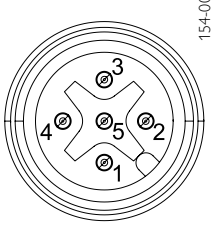


155-01926

LB 250 / LB 375 = 2x M4 Nuts LB 625 / LB 1000 = 3x M4 Nuts

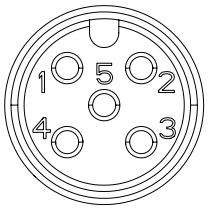
Wiring

male

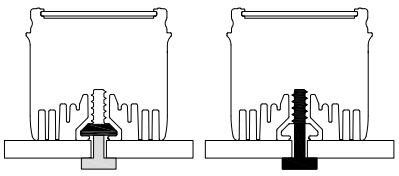


154-00539

female

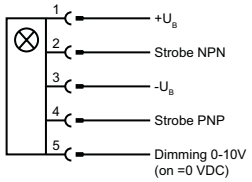


154-00540



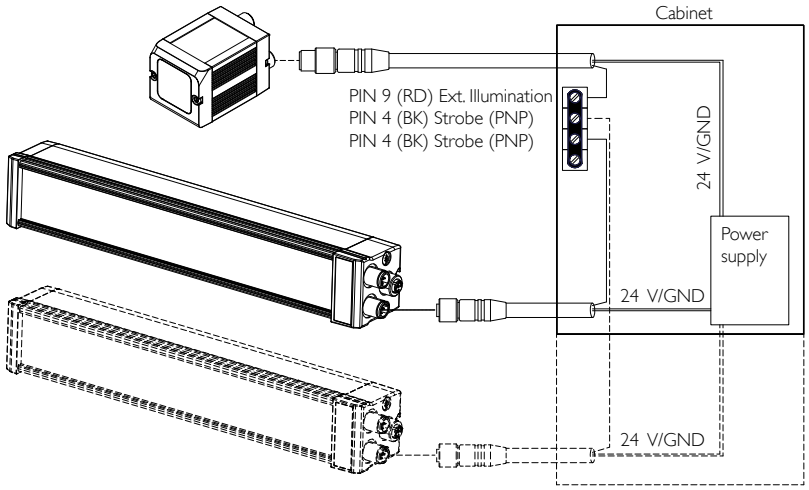
Nuts M4 supplied Screw M4 not supplied

155-01927



154-00532

Connection illumination - sensor



155-01906

Continuous operation: Strobe = 24 V DC

A

ZCP

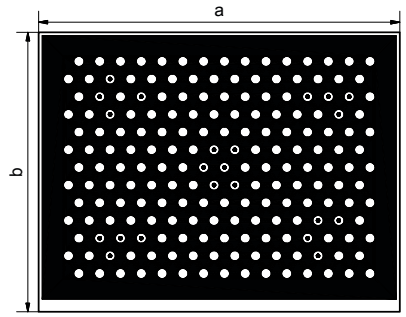
Calibration accessories for SensoPart vision sensors

Calibration plates

Part number	Article number	Description	Typ
ZCP 50-13x15	533-11030	15x13 points, 50 mm x 37,9 mm	Standard
ZCP 100-13x15	533-11031	15x13 points, 100 mm x 75,8 mm	Standard
ZCP 200-13x15	533-11032	15x13 points, 200 mm x 151,7 mm	Standard
ZCP 500-13x15	533-11033	15x13 points, 500 mm x 379,2 mm	Standard
ZCP 50-13x15-X01	533-11037	15x13 points, crosshairs, 50 mm x 37,9 mm	X01
ZCP 100-13x15-X01	533-11038	15x13 points, crosshairs, 100 mm x 75,8 mm	X01
ZCP 200-13x15-X01	533-11039	15x13 points, crosshairs, 200 mm x 151,7 mm	X01
ZCP 500-13x15-X01	533-11040	15x13 points, crosshairs, 500 mm x 379,2 mm	X01
ZCP 100-13x15-X02	533-11035	15x13 points, fiducials, 100 mm x 75,8 mm	X02
ZCP 50-13x15-X03	533-11042	15x13 points, fitting holes, 50 mm x 37,9 mm	X03
ZCP 100-13x15-X03	533-11041	15x13 points, fitting holes, 100 mm x 75,8 mm	X03
ZCP 100-ECC200	533-11036	Calibration plate for Code Reader ECC200 quality parameters	-

The calibration plates are used for calibrating the VISOR® vision sensor.
Scaling, tilt angle against perpendicular view to the measurement plane or by lens distortion are all corrected.

Dimensional drawing Standard

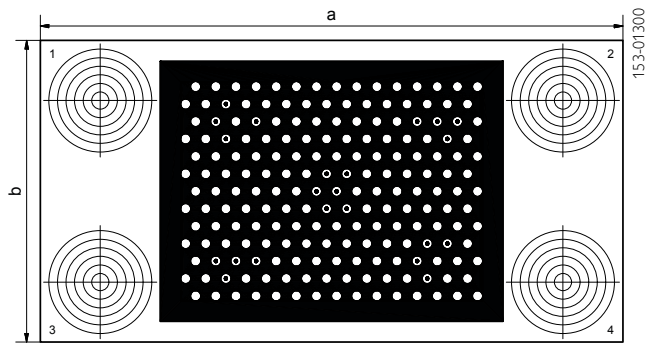


153-13531

	a [mm]	b [mm]	c [mm]	d [mm]	e Ø [mm]	t [mm]	Recommended field of view [mm]
ZCP 50-13x15	54	47				2	22 - 50
ZCP 100-13x15	104	85				2	30 - 100
ZCP 200-13x15	204	161				4	60 - 200
ZCP 500-13x15	504	389				4	150 - 500

Supports calibration method „Calibration plate (Measurement)".
Reference marks: none..

Dimensional drawing X01



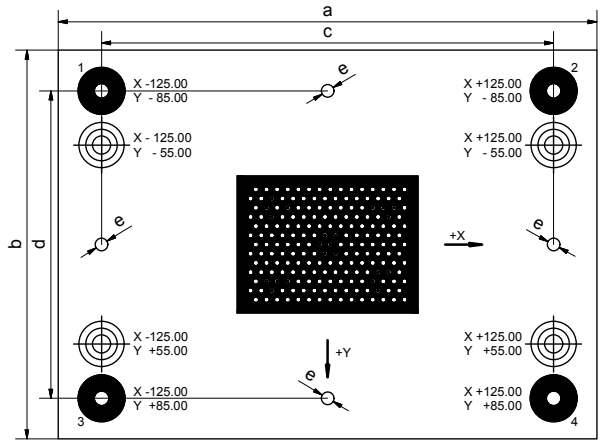
153-01300

	a [mm]	b [mm]	c [mm]	d [mm]	e Ø [mm]	t [mm]	Recommended field of view [mm]
ZCP 50-13x15-X01	98	54				2	22 - 50
ZCP 100-13x15-X01	180	100				2	30 - 100
ZCP 200-13x15-X01	340	176				4	60 - 200
ZCP 500-13x15-X01	820	403				4	150 - 500

Supports calibration method „Calibration plate (Robotics)".
With the reference marks, a reference to the absolute coordinate system is established.
Reference marks: crosshairs.

Calibration plates (Cont)

Dimensional drawing X02

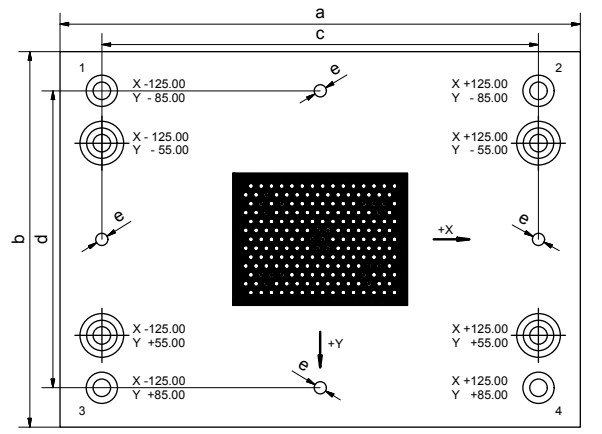


153-13528

	a [mm]	b [mm]	c [mm]	d [mm]	e Ø [mm]	t [mm]	Recommended field of view [mm]
ZCP 100-13x15-X02	295	215	250	170	7	4	30 - 100

For establishing an absolute reference, reflex marks are available. The transformation is calculated in the robot.
Reference marks: fiducials, crosshairs.

Dimensional drawing X03

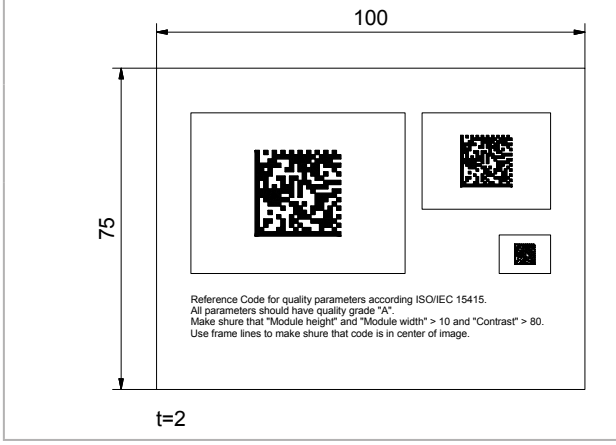


153-13530

	a [mm]	b [mm]	c [mm]	d [mm]	e Ø [mm]	t [mm]	Recommended field of view [mm]
ZCP 50-13x15-X03	298	218	250	170	7	4	22 - 50
ZCP 100-13x15-X03	298	218	250	170	7	4	30 - 100

See version X02.
Reference marks: fitting holes, crosshairs.

Dimensional drawing ZCP 100-ECC200



153-13529

Calibration plate for ECC200 Codes, sample code in quality grad „A" according ISO/IEC 15415.

A

Accessories

Lines



- Lines
- Converters
- Power supply units and switching devices

Straight connectors	90 ° connectors	90 ° connectors with LED	Shielded connectors
			

LINES FOR ACTUATORS AND SENSORS

Part number	Article number	Description
M5 socket, 4-pin		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded**
CN4 FG-2m-PUR	902-51793	2 m, straight, PUR, IP 67
CN4 FG-5m-PUR	902-51791	5 m, straight, PUR, IP 67
CN4 FW-2m-PUR	902-51794	2 m, 90 °, PUR, IP 67
CN4 FW-5m-PUR	902-51792	5 m, 90 °, PUR, IP 67
M8 socket, 3-pin		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains**
K3-2m-G-PUR	902-50679	2 m, straight, PUR, IP 67 / IP 69K
K3-5m-G-PUR	902-51614	5 m, straight, PUR, IP 67 / IP 69K
K3-10m-G-PUR	902-50694	10 m, gerade, PUR, IP 67 / IP 69K
K3-2m-W-PUR	902-50681	2 m, 90 °, PUR, IP 67 / IP 69K
K3-5m-W-PUR	902-51615	5 m, 90 °, PUR, IP 67 / IP 69K
K3-2m-W-PL-PUR	902-50683	2 m, 90 °, PUR, IP 67 / IP 69K, with indicator LED
K3-5m-W-PL-PUR	902-51616	5 m, 90 °, PUR, IP 67 / IP 69K, with indicator LED
K3-10m-W-PL-PUR	902-50693	10 m, 90 °, PUR, IP 67 / IP 69K, with indicator LED
M8 socket, 4-pin		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains**
K4-2m-G-PUR	902-50801	2 m, straight, PUR, IP 67 / IP 69K
K4-5m-G-PUR	902-51617	5 m, straight, PUR, IP 67 / IP 69K
K4-10m-G-PUR	902-51610	10 m, straight, PUR, IP 67 / IP 69K
K4-2m-W-PUR	902-50803	2 m, 90 °, PUR, IP 67 / IP 69K
K4-5m-W-PUR	902-51618	5 m, 90 °, PUR, IP 67 / IP 69K
K4-10m-W-PUR	902-51629	10 m, 90 °, PUR, IP 67 / IP 69K

Part number	Article number	Description
M8 socket, 4-pin (Cont.)		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains**
K4-2m-W-PL-PUR	902-51642	2 m, 90 °, PUR, IP 65 / IP 67 / IP 68, with indicator LED
K4-5m-W-PL-PUR	902-51643	5 m, 90 °, PUR, IP 65 / IP 67 / IP 68, with indicator LED
CM4 FG-E-5m-PVC	902-50221	5 m, straight, PVC, IP 67, hex nut SW 9 V2A, suited for food and beverages industries
CM4 FW-E-5m-PVC	902-50222	5 m, 90 °, PVC, IP 67 / IP 69K, hex nut SW 9 V2A, suited for food and beverages industries
M12 socket, 3-pin		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains**
L3-2m-G-PUR	902-50687	2 m, straight, a-coded, PUR, IP 67 / IP 68
L3-5m-G-PUR	902-51619	5 m, straight, a-coded, PUR, IP 67 / IP 68
L3-2m-W-PUR	902-50689	2 m, 90 °, a-coded, PUR, IP 67 / IP 68
L3-5m-W-PUR	902-51620	5 m, 90 °, a-coded, PUR, IP 67 / IP 68
L3-2m-W-PL-PUR	902-50690	2 m, 90 °, a-coded, PUR, IP 67 / IP 68, with indicator LED
L3-5m-W-PL-PUR	902-51621	5 m, 90 °, a-coded, PUR, IP 67 / IP 68, with indicator LED
M12 socket, 4-pin		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains**
L4-300mm-G-PUR	902-50811	0.3 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-2m-G-PUR	902-50805	2 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-5m-G-PUR	902-51612	5 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-10m-G-PUR	902-51628	10 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-2m-W-PUR	902-50807	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-5m-W-PUR	902-51602	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-2m-W-PL-PUR	902-50808	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
L4-5m-W-PL-PUR	902-51603	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
L4-10m-W-PL-PUR	902-51604	10 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
L4-15m-W-PL-PUR	902-51607	15 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
M12 socket, 4-pin		**Connection lines for actuators and sensors with self-locking threaded joint, shielded 360 °**
L4S-2m-G-PVC	902-51632	2 m, straight, a-coded, PVC, IP 67
L4S-5m-G-PVC	902-51634	5 m, straight, a-coded, PVC, IP 67
L4S-10m-G-PVC	902-51651	10 m, straight, a-coded, PVC, IP 67
L4S-2m-W-PVC	902-51633	2 m, 90 °, a-coded, PVC, IP 67
L4S-5m-W-PVC	902-51635	5 m, 90 °, a-coded, PVC, IP 67
M12 socket, 4-pin *** M12 plug, 4-pin**		**Connection lines, plugs and sockets ready to assemble, for actuators and sensors with self-locking threaded joint, unshielded**
CL4 FG-E-5m-PVC	902-50219	5 m, straight, PVC, IP 67, hex nut SW 9 V2A, suited for food and beverages industries
CL4 FW-E-5m-PVC	902-50220	5 m, 90 °, PVC, IP 67 / IP 69K, hex nut SW 14 V2A, suited for food and beverages industries
L4 KDG	022-50812	Coupling socket, ready to assemble, straight, with threaded joint, PBT, IP 67
L4 KDW	022-50813	Coupling socket, ready to assemble, 90 °, with threaded joint, PBT, IP 67
LS4-60-G-K	022-10773*	Connector, ready to assemble, with threaded joint, PA, IP 67
M12, 4-pin - M12, 4-pin **Plug - socket**		**Connection lines, specifically for FT 85 with self-locking threaded joints, unshielded, suitable for drag chains**
L4F/L4M-0,48 PUR	902-51670	0.48 m, M12 90 °, a-coded to M12 straight, a-coded, PUR, IP 67
L4F/L4M-B-codiert-0,48 PUR	902-51739	0.48 m, M12 90 °, a-coded to M12 straight, b-coded, PUR, IP 67
L4F/L4M-B-codiert-0,53 PUR	902-51825	0.53 m, M12 90 °, a-coded to M12 straight, b-coded, PUR, IP 67
L4F/L4M-B-codiert-0,48-X02 PUR	902-51823	0.48 m, M12 90 °, a-coded to M12 straight, b-coded, twist PIN 2 & 4, PUR, IP 67
L4F/L4M/B-codiert-1,00 PUR	902-51827	1 m, M12 90 °, a-coded to M12 straight, b-coded, PUR, IP 67

Accessories

Cables

Part number	Article number	Description
M12 socket, 5-pin		**Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains**
L5-2m-G-PUR	902-51652	2 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L5-5m-G-PUR	902-51624	5 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L5-10m-G-PUR	902-51609	10 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L5-2m-W-PUR	902-51613	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
L5-5m-W-PUR	902-51641	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
M12 socket, 5-pin		**Data lines for actuators and sensors, specifically for V10, V20 with self-locking threaded joint, shielded, suitable for drag chains**
CI L5FGS-2m-PUR	902-51813	2 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FGS-5m-PUR	902-51814	5 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FGS-10m-PUR	902-51815	10 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FWS-2m-PUR	902-51816	2 m, 90 °, a-coded, PUR, IP 65 / IP 67
CI L5FWS-5m-PUR	902-51817	5 m, 90 °, a-coded, PUR, IP 65 / IP 67
CI L5FWS-10m-PUR	902-51818	10 m, 90 °, a-coded, PUR, IP 65 / IP 67
M12 socket, 8-pin		**Connection lines for actuators and sensors with self-locking threaded joint, shielded, suitable for drag chains**
L8FS-2m-G-PUR	902-51671	2 m, straight, a-coded, PUR, IP 67
L8FS-5m-G-PUR	902-51646	5 m, straight, a-coded, PUR, IP 67
L8FS-10m-G-PUR	902-51689	10 m, straight, a-coded, PUR, IP 67
L8FS-2m-W-PUR	902-51687	2 m, 90 °, a-coded, PUR, IP 67
L8FS-5m-W-PUR	902-51688	5 m, 90 °, a-coded, PUR, IP 67
L8FS-10m-W-PUR	902-51690	10 m, 90 °, a-coded, PUR, IP 67
M12 socket, 8-pin		**Connection lines for actuators and sensors (color assignment in acc. to DIN 60947-5-2) with self-locking threaded joint, shielded 360 °**
C L8FG-S-2m-PUR	902-51830	2 m, straight, a-coded, PUR, IP 67 / IP 68 / IP 69K
C L8FG-S-5m-PUR	902-51831	5 m, straight, a-coded, PUR, IP 67 / IP 68 / IP 69K
C L8FG-S-10m-PUR	902-51832	10 m, straight, a-coded, PUR, IP 67 / IP 68 / IP 69K
M12 plug to M8 socket		**Adapter lines for actuators and sensors, i.a. for IO-Link with self-locking threaded joint, unshielded, suitable for drag chains**
K4/L4-2m-PUR	902-51860	2 m, M8 4-pin straight, to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
K4/L4-5m-PUR	902-51876	5 m, M8 4-pin straight, to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
K3/L4-2m-PUR	902-51861	2 m, M8 3-pin straight, to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
K3/L4-5m-PUR	902-51877	5 m, M8 3-pin straight, to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
M12 plug to M12 socket		**Adapter lines for actuators and sensors, i.a. for IO-Link with self-locking threaded joint, unshielded, suitable for drag chains**
L4/L4-2m-PUR	902-51873	2 m, M12 4-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
L4/L4-5m-PUR	902-51878	5 m, M12 4-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
L5/L5-2m-PUR	902-51874	2 m, M12 5-pin straight, a-coded to M12 5-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
L5/L5-5m-PUR	902-51879	5 m, M12 5-pin straight, a-coded to M12 5-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
L8/L4-2m-PUR	902-51857	2 m, M12 8-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
L8/L4-5m-PUR	902-51875	5 m, M12 8-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
M12 socket, 4-pin, t-coding		**Supply lines, i.a. for 8-port master with self-locking threaded joint, unshielded, suitable for drag chains**
C L4FG-2-PUR	902-51880	2 m, straight, t-coded, PUR, IP 65 / IP 67 / IP 68
C L4FG-5-PUR	902-51881	5 m, straight, t-coded, PUR, IP 65 / IP 67 / IP 68
C L4FG-10-PUR	902-51882	10 m, straight, t-coded, PUR, IP 65 / IP 67 / IP 68

Part number	Article number	Description
M16 socket, 12-pin		**Connection lines for actuators and sensors, strands in pairs 6x2 with self-locking threaded joint, shielded**
Q12-3m-G-PVC	902-51656	3 m, straight, PVC, IP 67
Q12-5m-G-PVC	902-51657	5 m, straight, PVC, IP 67
Q12-10m-G-PVC	902-51658	10 m, straight, PVC, IP 67
Q12-20m-G-PVC	902-51663	20 m, straight, PVC, IP 67
Q12-30m-G-PVC	902-51664	30 m, straight, PVC, IP 67
Q12-3m-W-PVC	902-51659	3 m, 90 °, PVC, IP 67
Q12-10m-W-PVC	902-51661	10 m, 90 °, PVC, IP 67
M12 socket 3/4/5-pin		**Connection lines, adapter and converter i.a. for SmartPlug and FR 85**
L3M/K3F-0,6 PUR	902-51653	0.6 m, connection adapter M12 3-pin plug straight, a-coded to M8 3-pin socket straight, IP 67
L4M/K4F-0,6 PVC	902-51645	0.6 m, connection adapter M12 4-pin plug straight, a-coded to M8 4-pin socket straight, IP 67
L4M/K4FW-0,6 PVC	902-51650	0.6 m, connection adapter M12 4-pin plug straight, a-coded to M8 4-pin socket 90 °, IP 67
L5F/Q8F-0,5 PUR	902-51686	0.5 m, connection adapter M12 5-pin socket straight, a-coded to M16 8-pin plug straight, IP 67

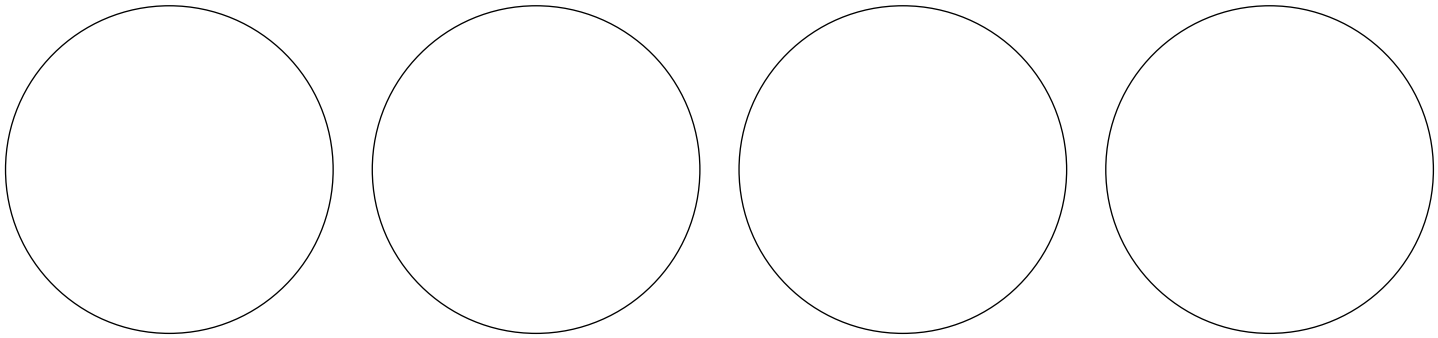
CABLES FOR VISION SENSORS

M12 socket, 12-pin		**Supply and I/O lines i.a. for V10,V20 shielded 360 °, suitable for drag chains, suitable for robotics applications**
C L12FG-S-2m-PUR	902-51801	2 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FG-S-5m-PUR	902-51796	5 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FG-S-10m-PUR	902-51797	10 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FG-S-20m-PUR	902-51805	20 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FG-S-30m-PUR	902-51845	30 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FW-S-2m-PUR	902-51798	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FW-S-5m-PUR	902-51799	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FW-S-10m-PUR	902-51800	10 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FW-S-20m-PUR	902-51821	20 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12FW-S-30m-PUR	902-51846	30 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
M12 socket, 3-pin		**Supply and I/O lines i.a. for V10,V20 (3-pin - 24 V, GND, trigger) shielded, suitable for drag chains, suitable for robotics aplications**
C L12/3FG-S-2m-PUR	902-51833	2 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FG-S-5m-PUR	902-51834	5 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FG-S-10m-PUR	902-51835	10 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FG-S-20m-PUR	902-51839	20 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FG-S-30m-PUR	902-51847	30 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FW-S-2m-PUR	902-51836	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FW-S-5m-PUR	902-51837	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FW-S-10m-PUR	902-51838	10 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FW-S-20m-PUR	902-51840	20 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
C L12/3FW-S-30m-PUR	902-51848	30 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
M12 plug 4-pin, d-coding to RJ45 plug		**Ethernet lines i.a. for V 10,V 20, IO-Link master shielded 360 °, suitable for drag chains, suitable for robotics applications**
CI L4MG/RJ45G-GS-3m-PUR	902-51754	3 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-5m-PUR	902-51782	5 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-10m-PUR	902-51784	10 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-20m-PUR	902-51820	20 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-30m-PUR	902-51843	30 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MW/RJ45G-GS-3m-PUR	902-51786	3 m, 90 °, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MW/RJ45G-GS-5m-PUR	902-51788	5 m, 90 °, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MW/RJ45G-GS-10m-PUR	902-51790	10 m, 90 °, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MW/RJ45G-GS-20m-PUR	902-51822	20 m, 90 °, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MW/RJ45G-GS-20m-PUR	902-51844	30 m, 90 °, d-coded, PUR, IP 65 / IP 67 / IP 68

Accessories

Cables

Part number	Article number	Description
M12 socket, 5-pin		**Data lines i.a. for V10,V20 shielded, suited for drag chains**
CI L5FGS-2m-PUR	902-51813	2 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FGS-5m-PUR	902-51814	5 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FGS-10m-PUR	902-51815	10 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FWS-2m-PUR	902-51816	2 m, 90 °, a-coded, PUR, IP 65 / IP 67
CI L5FWS-5m-PUR	902-51817	5 m, 90 °, a-coded, PUR, IP 65 / IP 67
CI L5FWS-10m-PUR	902-51818	10 m, 90 °, a-coded, PUR, IP 65 / IP 67
M12 socker 4-pin to M12 socket 12-pin		**Illumination lines for V10,V20 shielded 360 °, suitable for drag chains**
CB L12FS/L12FS-0,35m-GG-PUR	902-51841	0.35 m, M12 straight socket a-coded to 12-pin straight socket a-coded, PUR, IP 65 / IP 67 / IP 68
CB L12FS/L12FS-0,5m-GG-PUR	902-51806	0.5 m, M12 straight socket a-coded to 12-pin straight socket a-coded, PUR, IP 65 / IP 67 / IP 68
CB L12FS/L12FS-2m-GG-PUR	902-51807	2 m, M12 straight socket a-coded to 12-pin straight socket a-coded, PUR, IP 65 / IP 67 / IP 68
CB L12FS/L12FS-10m-GG-PUR	902-51854	10 m, M12 straight socket a-coded to 12-pin straight socket a-coded, PUR, IP 65 / IP 67 / IP 68
CB L12FS/L12FS-0,35m-WW-PUR	902-51842	0.35 m, M12 90 ° socket a-coded to 12-pin 90 ° socket a-coded, PUR, IP 67 / IP 69K
CB L12FS/L12FS-0,5m-WW-PUR	902-51808	0.5 m, M12 90 ° socket a-coded to 12-pin 90 ° socket a-coded, PUR, IP 67 / IP 69K
CB L12FS/L12FS-2m-WW-PUR	902-51809	2 m, M12 90 ° socket a-coded to 12-pin 90 ° socket a-coded, PUR, IP 67 / IP 69K
M12 plug, 12-pin		**Illumination lines for V10,V20 unshielded 360 °, suitable for drag chains**
CB L4MG-10m-PUR	902-51756	10 m, M12 4-pin straight, PUR, IP 67, for direct connection of devices 532-51000 to 532-51052

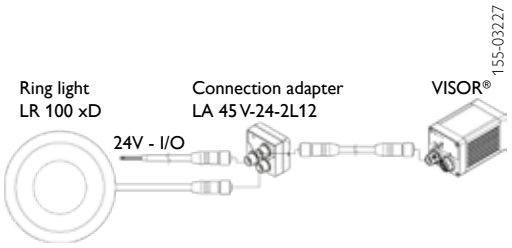


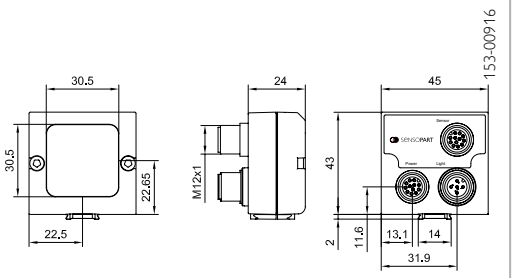
Accessories

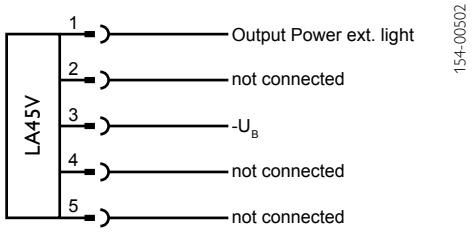
Adapter

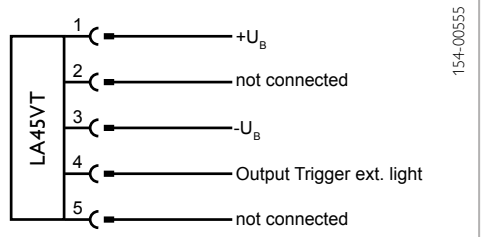
Connection adapter for illumination on V10, V20







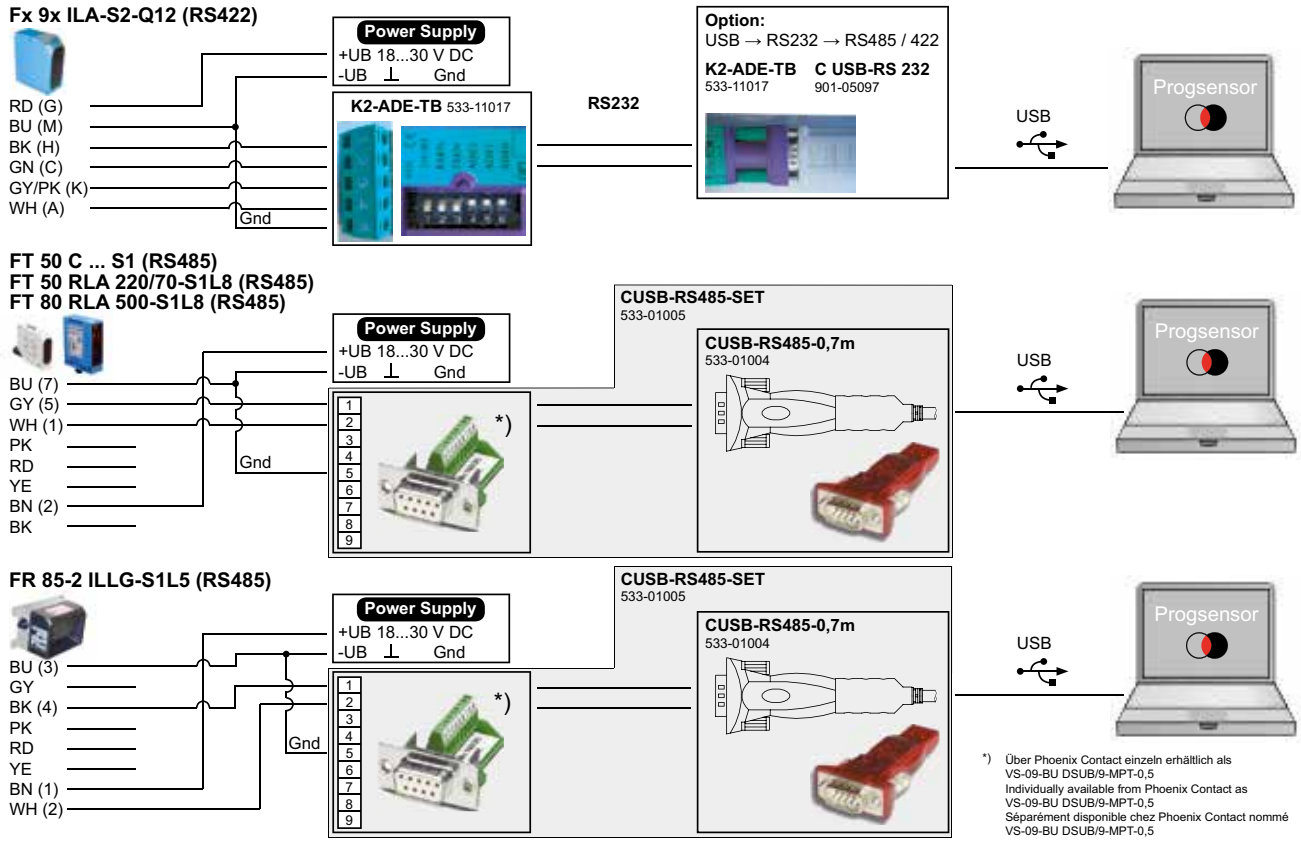




M12 plug 5-pin, 2x12 plug 12-pin		Connection adapter, illumination
LA45V-24-2L12	525-01001	V10,V20 connection adapter for LED illumination with 5-pin M12 plug
LA 45 VT-24-2L12	525-01002	V10,V20 connection adapter with 5-pin M12 socket for LED illumination with trigger line

Part number	Article number	Description
RS232 ↔ RS485/422		**Converters and adapter lines**
K2-ADE-TB	533-11017	Converter RS232 ↔ RS485/422, in combination with CUSB-RS232-2m (901-05097) for PC connection of F 90 / F 91 sensors, parameterisation via "ProgSensor" software
USB ↔ RS232		
CUSB-RS232-2m	901-05097	Interface converter incl. CD-ROM, cable 2 m, USB ↔ RS232, in combination with K2-ADE-TB (533-11017) for PC connection of F 90/91 sensors, parameterisation via "ProgSensor" software
USB ↔ RS485		
CUSB-RS485-SET	533-01005	Set: Interface converter incl. CR-ROM, line 0.7 m, USB ↔ RS485 and D-SUB socket, 9-pin, socket, for PC connection of sensors to RS485 interface. Parameterisation F 50 / F 80 via "ProgSensor" software
CUSB-RS485-0,7m	533-01004	Interface converter incl. CD-ROM, cable 0.7 m, USB ↔ RS485

Interface Converter (USB / RS232 / RS485 / RS422)



Download software: www.sensopart.com

IO-Link Master

Gateways for industrial networks



PRODUCT HIGHLIGHTS

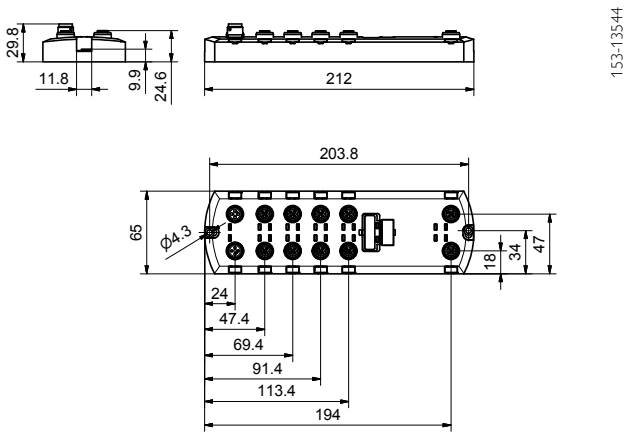
- Gateways for PROFINET, EtherNet/IP / Modbus TCP
- Efficient web server for easy parameter setting of IO-Link sensors, including IODD management
- Robust IP 67 housing for harsh production environments
- Support of "Data storage" for an easy sensor replacement
- Additional digital input at each port
- Daisy chain to other network members possible

IO-Link		Functions	
Supported IO-Link versions	1.1 and 1.0	Web server	For easy parameter setting of the sensors, incl. upload and management of IODDs
Communication mode	COM 1, COM 2, COM 3		
Max. cable length	20 m	Firmware Update	Compatible
Data storage	Compatible	Interfaces	See slection table
Electrical data			
Operating voltage 8-port	20 ... 30 V DC	Max. current consumption 4-port	4 A
Max. output current PIN 4 (C/Q)	200 mA	Max. current consumption 8-port	12 A
Max. output current PIN 1/3 port 1 (8-port model)	1,6 A	Max. current consumption (without load)	100 mA @ 24 V DC
Max. output current PIN 1/3 other ports	500 mA	Protective circuit	Short-circuit protection
		Switching output	PNP / NPN
Mechanical data 4-port		**Mechanical data 8-port**	
Dimensions	154 x 51.8 x 43.7 mm	Dimensions	212 x 65 x 29.8 mm
Enclosure rating	IP 67	Enclosure rating	IP 67
Connection power supply	M12, 5-pin, A-coded	Connection power supply	M12, 4-pin, T-coded
Connection sensor	M12, A-coded	Connection sensor	M12, A-coded
Connection network cable	M12, D-coded	Connection network cable	M12, D-coded
Material housing	ABS	Material housing	ABS
Ambient temperature: operation	0 … +55 °C	Ambient temperature: operation	-25 … +60 °C
Ambient temperature: storage	-40 … +70 °C	Ambient temperature: storage	-40 … +70 °C
Weight	318 g	Weight	454 g

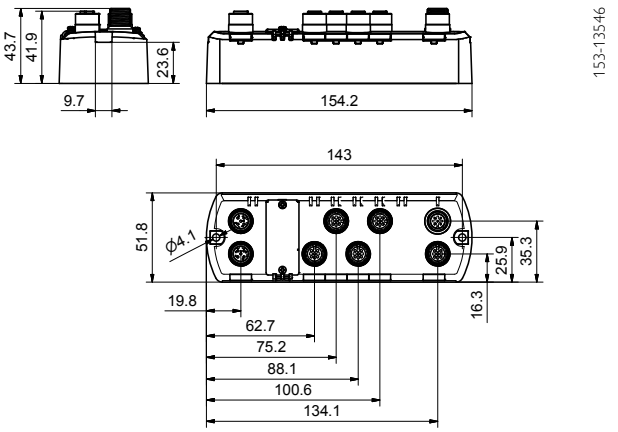
Interfaces	Number of ports	Part number	Article number
PROFINET	8-Port	PN-L-8-LT4	533-11053
PROFINET	4-Port	PN-L-4-LA5	533-11052
EtherNet/IP / Modbus TCP	8-Port	EIP/MB-L-8-LT4	533-11051
EtherNet/IP / Modbus TCP	4-Port	EIP/MB-L-4-LA5	533-11050

Version: 05/2019. Subject to changes; diagrams similar

Dimensions 8-port



Dimensions 4-port



Accessories IO-Link Master

Part number	Article number	Description
M12 socket, 4-pin, t-coding		**Supply lines 8-port master, with self-locking threaded joint, unshielded, suitable for drag chains**
C L4FG-2-PUR	902-51880	2 m, straight, t-coded, PUR, IP 65 / IP 67 / IP 68
C L4FG-5-PUR	902-51881	5 m, straight, t-coded, PUR, IP 65 / IP 67 / IP 68
C L4FG-10-PUR	902-51882	10 m, straight, t-coded, PUR, IP 65 / IP 67 / IP 68
M12 socket, 5-pin		**Supply lines 4-port master, with self-locking threaded joint, shielded, suitable for drag chains**
CI L5FGS-2m-PUR	902-51813	2 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FGS-5m-PUR	902-51814	5 m, straight, a-coded, PUR, IP 65 / IP 67
CI L5FGS-10m-PUR	902-51815	10 m, straight, a-coded, PUR, IP 65 / IP 67
M12 plug 4-pin, d-coding to RJ45 plug		**Ethernet and sensor lines for 4-port and 8-port master, shielded 360 °, suitable for drag chains, suitable for robotics applications**
CI L4MG/RJ45G-GS-3m-PUR	902-51754	3 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-5m-PUR	902-51782	5 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-10m-PUR	902-51784	10 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-20m-PUR	902-51820	20 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
CI L4MG/RJ45G-GS-30m-PUR	902-51843	30 m, straight, d-coded, PUR, IP 65 / IP 67 / IP 68
M12 plug to M8 socket		**Ethernet and sensor lines for 4-port and 8-port master, with self-locking threaded joint, unshielded, suitable for drag chains**
K4/L4-2m-PUR	902-51860	2 m, M8 4-pin straight, to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
K3/L4-2m-PUR	902-51861	2 m, M8 3-pin straight, to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
K4/L4-5m-PUR	902-51876	5 m, M8 4-pin straight, to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
K3/L4-5m-PUR	902-51877	5 m, M8 3-pin straight, to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
M12 plug to M12 socket		**Ethernet and sensor lines for 4-port and 8-port master, with self-locking threaded joint, unshielded, suitable for drag chains**
L8/L4-2m-PUR	902-51857	2 m, M12 8-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
L4/L4-2m-PUR	902-51873	2 m, M12 4-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K
L8/L4-5m-PUR	902-51875	5 m, M12 8-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 67 / IP 69K
L4/L4-5m-PUR	902-51878	5 m, M12 4-pin straight, a-coded to M12 4-pin straight, a-coded, PUR, IP 65 / IP 67 / IP 68 / IP 69K

A

SensoIO

Service tool for parameterization of sensors with IO-Link



PRODUCT HIGHLIGHTS

- Parameterization tool for sales, service and developement
- Connects an IO-Link sensor to a windows PC via USB
- Intuitive user interface for visualizing and editing the IO-link parameters

Functions	
LED green: permanently on LED green: permanent flash	Device ready for operation, no IO-Link communication Device ready for operation, active IO-Link communication
LED red: permanently on	Error message

Electrical data	
Output voltage USB mode	24V DC
Output current USB mode	max. 65 mA
Output voltage mains operation	≙ input voltage
Output current mains operation	max. 500 mA
Input voltage SensoIO external power supply	24 V AC (EN 60950)
Input current SensoIO external power supply	max. 600 mA
Protective circuit	Short-circuit protection

Mechanical data	
Dimensions	54 x 41.3 x 24 mm
Enclosure rating	IP 20
Material, housing	Aluminium anodised
Ambient temperature: operation	-0 … +55 °C
Weight	~ 100 g

IO-Link	
Communication mode	COM 1, COM 2, COM 3
Specification	1.1
Number of Ports	1

Part number	Article number	Description
SensoIO[1]	901-01000	IO-Link USB-Master

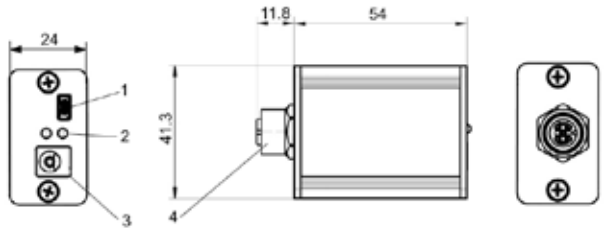
[1] incl. USB-cable: USB-A to mini-USB

Accessories	
Connection cable (L4F/L4M-0,48 PUR / 902-51670)	From Page A-38

Version: 05/2019. Subject to changes; diagrams similar

Dimensional drawing

153-01277



1 USB 2.0 (mini USB)
2. LED
3. 24V DC D5.5/2.1 mm
4. M12, Type A

Connection 5-pin

155-02036



IO-LINK	PIN	SIGNAL
	1	24V DC
	2	not connected
	3	GND
	4	IO-Link
	5	not connected

USB	PIN	SIGNAL
	1	5V DC
	2	D-
	3	D+
	4	not connected
	5	GND

A

Accessories

Power supply units and switching devices

Power supply units and switching devices		
	Part number / Article number Description	ST-05 / 997-51467 Sensor tester for PNP and NPN sensors – battery operated, 2 x 9 Volt (supplied) – with acoustic and optical signalling of switching output
	Part number / Article number Description	PA L4M4-TI / 997-51465 Teach-in unit for programming of SmartPlugs and sensors with Teach input – power supply voltage connection via 3-wire cable – M8 and M12 connection plugs
	Part number / Article number Description	Setup Box FR 85-2 ILLX / 533-11016 Setup Box for FR 85 Rail Pilot system. Enables parameterisation of the switching points of FR 85 via PC – Connection of power supply via plug M12, 5-pin – M12, 8-pin – Plug adapter M12, 8-pin to M12, 5-pin for the connection of FR 85 (5-pin) – RS232 interface for connection to PC – Gender Changer – Null modem adapter
	Part number / Article number Description	ST M12-12 / 994-51135 Power supply unit for V10 / V20, M12 connector, 12-pin, Europlug – connection of power supply voltage via Europlug – M12 connector
	Part number / Article number Description	ST M12-12-M / 994-51138 Power supply unit for V10 / V20, M12 connector, 12-pin, Multiplug – connection of power supply voltage via Multiplug – M12 connector
	Part number / Article number Description	ST V10 / 543-11022 Demo and Test Box for all V10 / V20 types. Allows test mode with simulation of inputs (triggers, etc.) and the display of outputs. All I/Os are through-wired, so parallel operation with controller also possible. Connections: – V10 / V20 via 12-pin, plug-in screw terminal – Trigger sensor via 9-pin, plug-in screw terminal and encoder input – PLC via M12 plug, 12-pin – Power supply via 9-pin, plug-in terminal – Power supply via small device plug – Display of switching outputs via LEDs – Operation of inputs via buttons; NPN / PNP selectable
	Part number / Article number Description	Z-USB-VISOR® / 651-01000 USB stick with VISOR® PC software

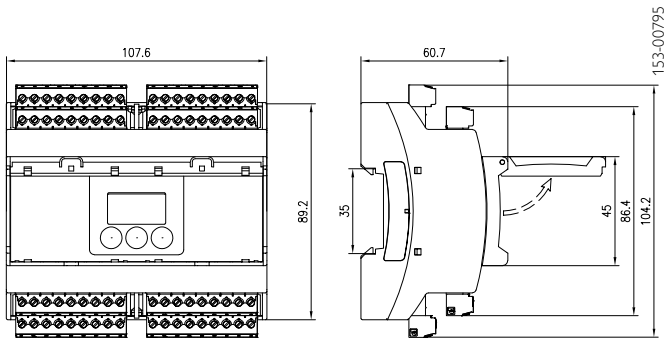


PRODUCT HIGHLIGHTS

- Input/output expansion for V10, V20
- Transcribes sensor's serial data to discrete outputs
- 32 digital switching outputs for the discrete provision of up to 32 individual digital results
- 8 digital switching inputs, e.g. for changing over configurations
- Encoder input, e.g. for ejector control independent of conveyor speed
- Rail mounting
- Display for easy visualisation and operator guidance

Functions	
Programmable time function	Switch-on delay 0 to 7 s, switch-off delay 0 to 1 s, each adjustable in 1 ms increments via control panel.
Programmable counting function	Alternative to time function, 0 to 2000 encoder steps for switch-on delay, 0 to 200 encoder steps for switch-off delay (acc. to prescaler), each adjustable in individual steps via control panel, cache for 512 parts.
Ejector	2x potential-free relay contacts N.O. / N.C. (2 A / 24 V)

Dimensional drawing, IO Box



Electrical data	
Operating voltage $+U_B$	20.4 … 26.4 V DC
No-load current, I_0	≤ 250 mA
Switching outputs	32x PNP (50 mA per output), total current max. 1 A
On delay, t_{On}, switching output	≤ 2 ms
Off delay, t_{Off}, switching output	≤ 2 ms
Inputs	8 x
$U_{IN, HIGH}$ control/trigger inputs	> 18 V
$U_{IN,LOW}$ control/trigger inputs	< 3 V
Max. permissible cable length	Power 3 m, others 30 m

Mechanical data	
Dimensions	107.6 x 104.2 x 60.7 mm
Enclosure rating	IP 20
Material, housing	Plastic
Connection system	Screw clamp contacts, plug-in
Ambient temperature: operation	5 … +50 °C
Ambient temperature: storage	0 … +50 °C
Vibration and impact resistance	EN 60947-5-2

Part number	Article number
T-AS7T-12ET34PRD	533-01008

Accessories	
Connection cable (data cable)	From Page A-38

A

PV-AW10IoT10.4TX(-V)

Display and configuration device for SensoPart vision sensors



PRODUCT HIGHLIGHTS

- Display and configuration device for SensoPart vision sensors and systems
- Suitable for installation in switching cabinet doors and operating panels
- Completely preconfigured

Functions	
Resolution	1024 x 768
Aspect ratio	4 : 3
Technology	TFT
Colors	16.2 millions
Backlight	LED
Backlight life time	30,000 h
Luminance [1]	350 cd/m²
Contrast ratio [1]	1200 : 1
Operating system	Windows® 10 IoT

Electrical data	
Operating voltage $+U_B$	24 V DC ± 20 %
CPU	AMD® GX-415GA / Quad Core™ / 1.5 GHz 64 Bit / 2 MB Cache
USB	2 x USB Host 3.0
Ethernet	2 x 1 Gbit Ethernet
Communication	1 x RS232
Video	1 x DVI-I
Memory	4 GB DDR3L
Storage	64 GB MLC
BIOS	AMI BIOS, supports ACPI function

Mechanical data	
Dimensions	266 x 213.2 x 52.4 mm
Enclosure rating	IP 65
Ambient temperature: operation	0 ... +50 °C
Ambient temperature: storage	-10 ... +70 °C
Weight	1700 g

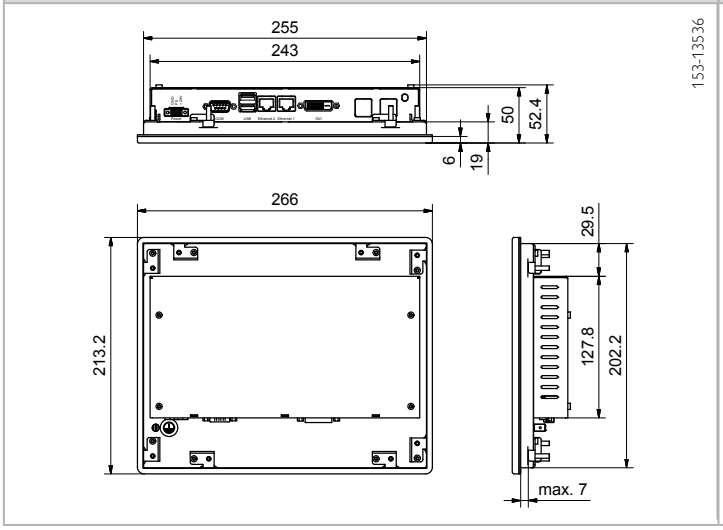
[1] The values are refferring to the displays only

Part number	Article number	Description
PV-AW10IoT10.4TX	533-01031	Panel PC 10.4", Win10 IoT, XGA, Touch, front panel mount
PV-AW10IoT10.4TX-V	533-01032	Panel PC 10.4", Win10 IoT, XGA, VESA mount

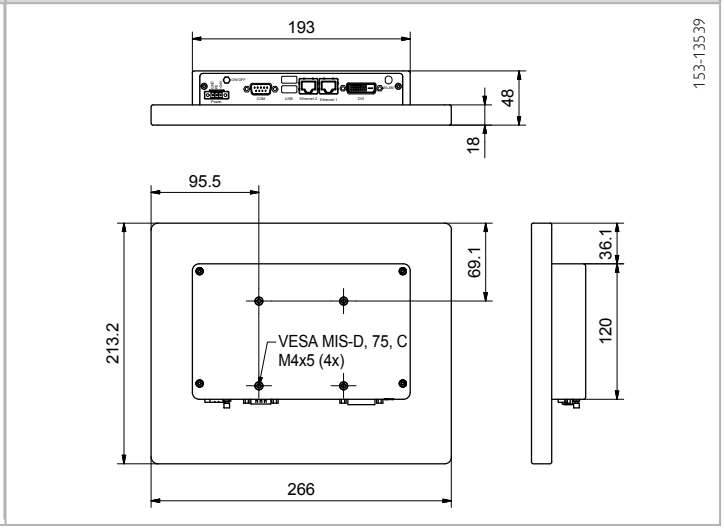
Accessories	
Connection cable (Ethernet cable)	From Page A-38

Version: 05/2019. Subject to changes; diagrams similar

Dimensional drawing PV-AW10IoT10.4TX



Dimensional drawing PV-AW10IoT10.4TX-V



A