



Accessories

- Installation accessories
- Reflectors
- Connectors



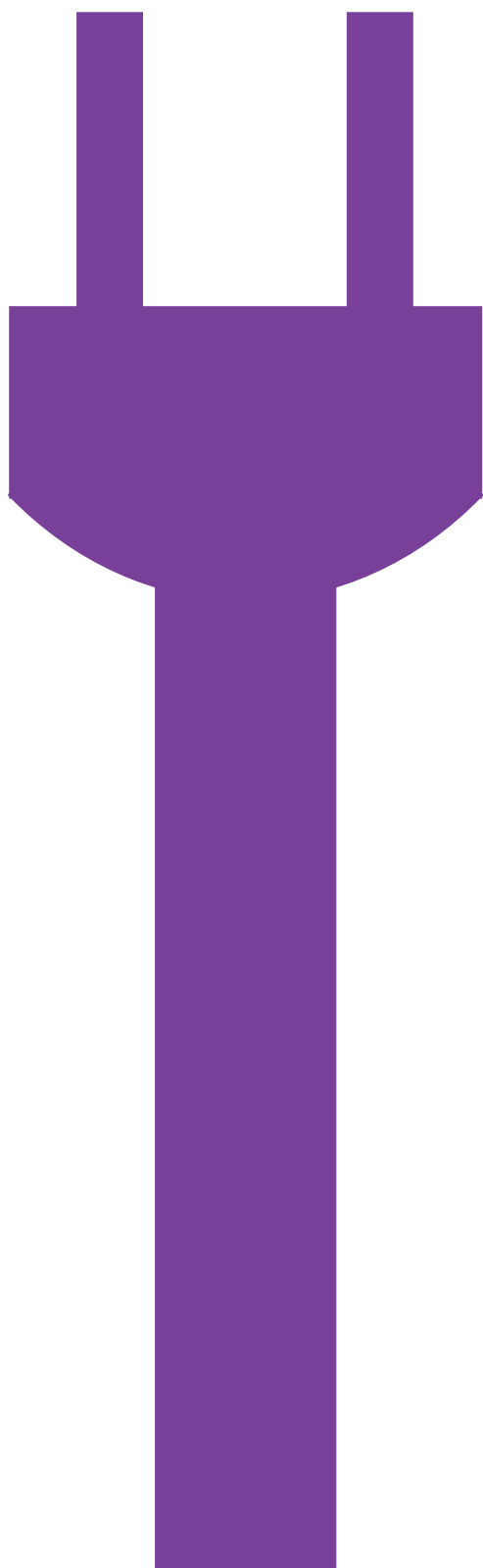
Installation
accessories



Connectors



Reflectors

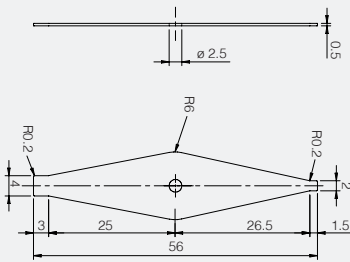




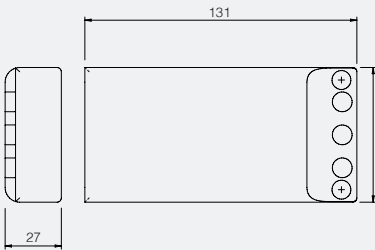
Installation accessories



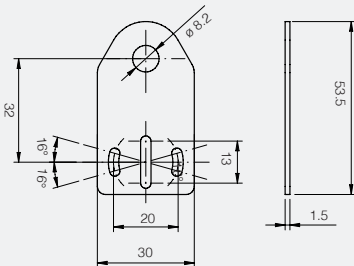
ST 82 / Screwdriver

product	suitable for	dimensions (mm)	descriptions / installation
	Sensors with trimmer adjustment		Screwdriver accessory for trimmer adjustment

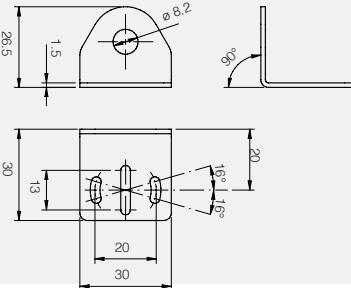
ST 100 / Accessory for testing DC sensors

product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for all types of photoelectric and proximity sensors		Accessory for testing DC sensors

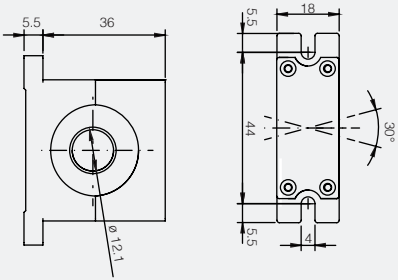
ST 08-A / Metal axial mount bracket for M08 cylindrical sensors

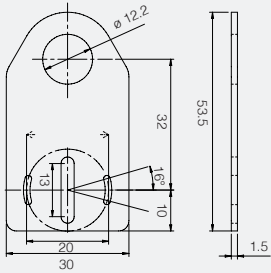
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M08 cylindrical sensors		Mounting with M3 screws

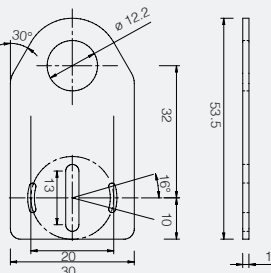
ST 08-C / Metal right angle mount bracket for M08 cylindrical sensors

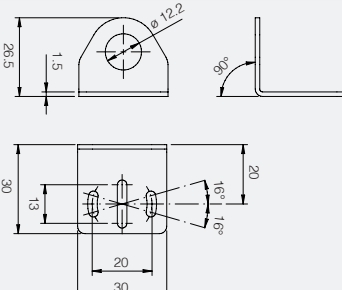
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M08 cylindrical sensors		Mounting with M3 screws



ST 04/ Plastic swing bracket for M12 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M12 cylindrical sensors		Mounting with M4 screws

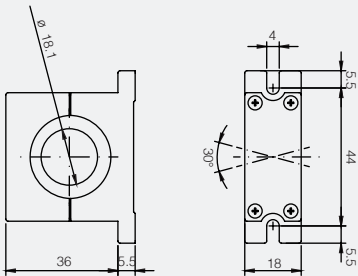
ST 12-A / Metal axial mount bracket for M12 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M12 cylindrical sensors		Mounting with M3 screws

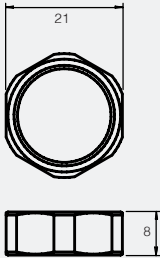
ST 12-A7W / Stainless steel AISI316L (DIN 1.4404) axial mount bracket for M12 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M12 cylindrical sensors		Mounting with M3 screws

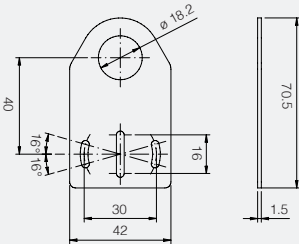
ST 12-C / Metal right angle mount bracket for M12 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M12 cylindrical sensors		Mounting with M3 screws

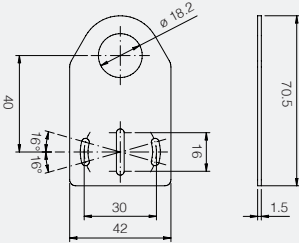
A black cylindrical component with a circular hole on its side, likely a part of a mechanical assembly.



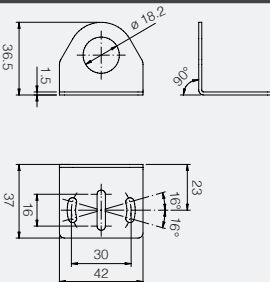
ST 02 / Plastic swing bracket for M18 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors. To be used with ST 29 metal ring nuts.		Mounting with M4 screws

ST 29 / M18 metal ring nuts for mounting of M18 cylindrical sensors on ST 02 swing bracket			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Fixing with spanner of 21 mm

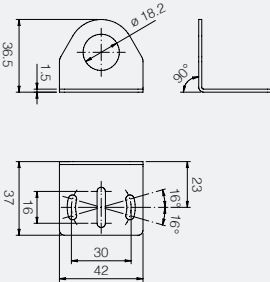
ST 18-A/ Metal axial mount bracket for M18 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Mounting with M4 screws

ST 18-A7W / Stainless steel AISI316L (DIN 1.4404) axial mount bracket for M18 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Mounting with M4 screws

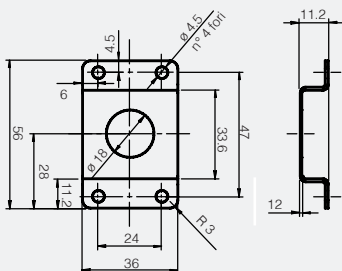
**ST 18-C / Metal right angle mount bracket for M18 cylindrical sensors**

product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Mounting with M4 screws

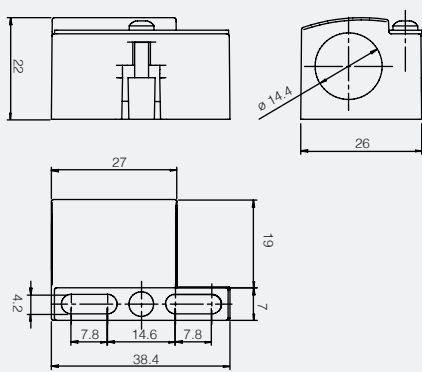
ST 18-C7W / Stainless steel AISI316L (DIN 1.4404) right angle mount bracket for M18 cylindrical sensors

product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Mounting with M4 screws

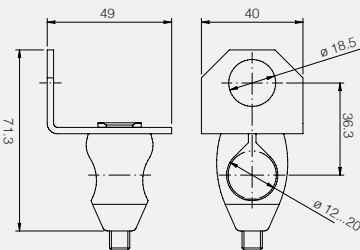
ST 18-V / Metal right angle mount bracket for M18 cylindrical sensors

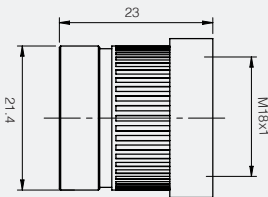
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Mounting with M4 screws

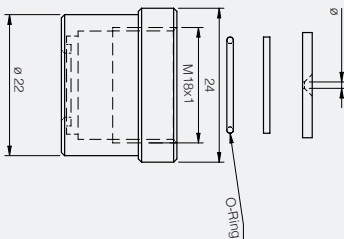
ST 18-S / Stainless steel AISI316L (DIN 1.4404) right angle mount bracket for M18 cylindrical sensors

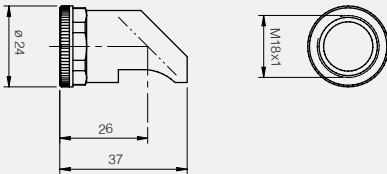
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Mounting with M4 screws



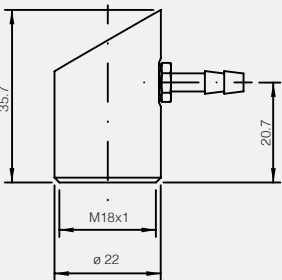
STC 18 / Mounting bracket for M18 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical sensors		Metal right angle mount bracket

STF-12 STF-25 STF-50 / Focusing device for M18 cylindrical photoelectric sensors SAT – LDLU – LTB – SST – MST series			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical photoelectric sensors		Focal distance for: STF-12 → 12 mm STF-25 → 25 mm STF-50 → 50 mm

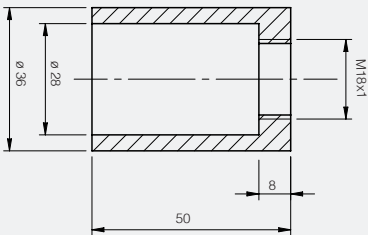
STOS-1 STOS-2 STOS-3 STOS-4 STOS-6 STOS-8 / Shutter for M18 cylindrical photoelectric sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical photoelectric sensors		Shutter

ST 03 / Right angle beam adapter for M18 cylindrical photoelectric sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical photoelectric sensors		Right angle beam adapter

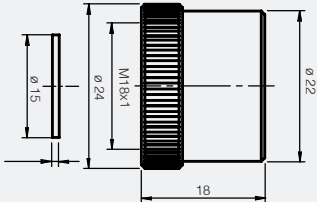
**ST 30 / Antidust front for M18 cylindrical photoelectric sensors**

product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical photoelectric sensors	 Technical drawing showing dimensions: 35.7, 20.7, M18x1, and $\varnothing 22$.	Antidust front

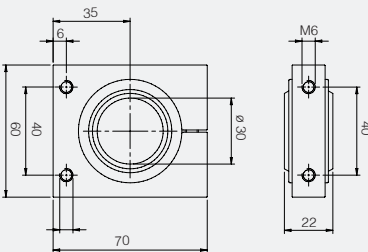
ST 32 / Anti-condensation front for M18 cylindrical photoelectric sensors

product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical photoelectric sensors	 Technical drawing showing dimensions: 36, $\varnothing 28$, $\varnothing 36$, M18x1, 8, and 50.	Anti-condensation front

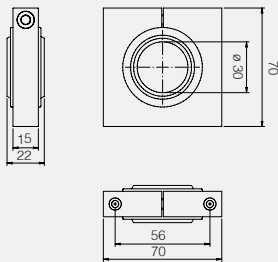
ST 50 / Protective front for M18 cylindrical photoelectric sensors

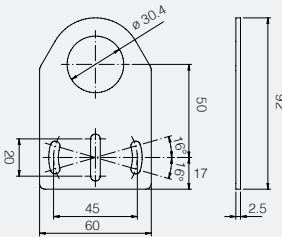
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 cylindrical photoelectric sensors	 Technical drawing showing dimensions: $\varnothing 15$, M18x1, $\varnothing 24$, $\varnothing 22$, and 18.	Protective front

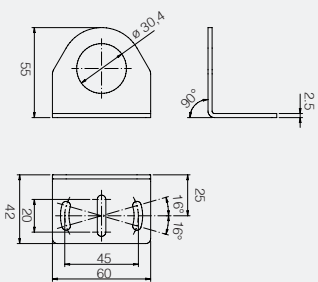
ST 13 / Metal swing bracket with threaded holes for M30 cylindrical sensors

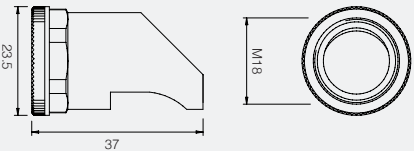
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M30 cylindrical sensors	 Technical drawing showing dimensions: 35, 6, 40, 60, 70, $\varnothing 30$, M6, 40, and 22.	Mounting with M6 screws from beneath the surface or through the wall



ST 14 / Metal swing bracket with threaded holes for M30 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M30 cylindrical sensors		Mounting with M6 screws from upper side

ST 30-A / Metal axial mount bracket for M30 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M30 cylindrical sensors		Mounting with M5 screws

ST 30-C/ Metal right angle mount bracket for M30 cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M30 cylindrical sensors		Mounting with M5 screws

ST 03-U / Beam deflector for M18 ultrasonic cylindrical sensors			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for M18 ultrasonic cylindrical sensors		Plastic beam deflector

ST 07 / Metal mount bracket for rectangular photoelectric sensors PS - FS1 series

ST 70 / Metal mount bracket for rectangular photoelectric sensors BS - BV series

ST 80 / Metal top mount bracket for rectangular photoelectric sensors RX series



ST 81 / Metal side mount bracket for rectangular photoelectric sensors RX series			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for rectangular photoelectric sensors RX series	Technical drawing showing dimensions (mm): - Top view: Overall width 70, mounting hole spacing 47.5, hole diameter 6, flange width 15, hole offset 7.5, and a 10x10mm slot. - Side view: Overall height 32.5, mounting hole offset 21, and a 1.5mm thickness. - Detail view: Shows a 11mm wide slot, a 32mm wide hole, a 47.5mm mounting hole spacing, a 15mm flange width, and a 7mm hole offset.	Mounting with M5 screws

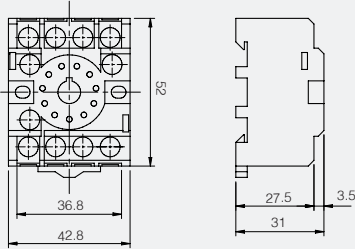
STC 80 / Mounting bracket for rectangular photoelectric sensorsRX-BS-BV-PS series			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for rectangular photoelectric sensors RX - BS - BV - PS series		Mounting bracket

STC 00/ Mounting bracket for retro-reflective			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for reflectors RL110-RL116-RL113 series		- Fix the reflector RL 110 to the hole 1 using the M5 screw and nut; - Fix the reflector RL 116 to the holes 2 using two M3 screws and nuts; - Fix the reflector RL 113G to the holes 3 using two M3 screws and nuts.

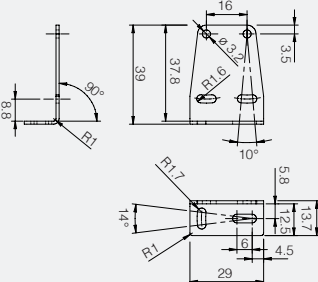
The screws and the nuts are included.

ST 28 / Right angle beam adapter for M7 optical fibres CF/RBA-** and CF/RCA-20 models			
product	suitable for	dimensions (mm)	descriptions / installation
	Accessories suitable for optical fibres CF/RBA and CF/RCA		Right angle beam adapter

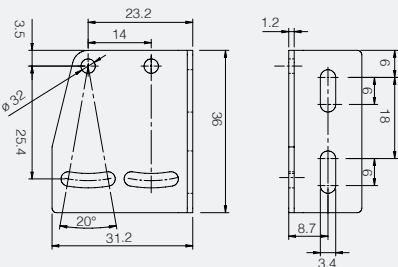
**STZ3 / Undecal socket to be used together with UR control unit series**

product	suitable for	dimensions (mm)	descriptions / installation
	UR control unit series		Undecal socket

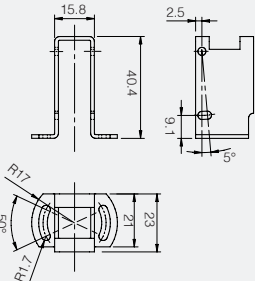
ST 101 / L shape vertical mounting bracket for miniaturized rectangular sensors QM series

product	suitable for	dimensions (mm)	descriptions / installation
	Various accessories		L shape vertical mounting bracket

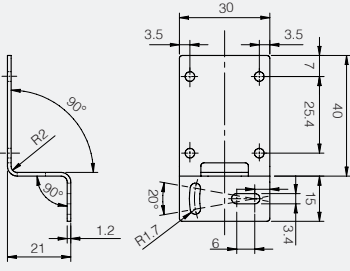
ST 102 / L shape side mounting bracket for miniaturized rectangular sensors QM series

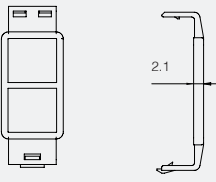
product	suitable for	dimensions (mm)	descriptions / installation
	Various accessories		+/- 10° tip - Stainless steel

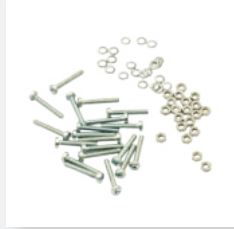
ST 103 ⁽¹⁾ / Vertical mounting bracket with protective cover for miniaturized rectangular sensors QM series

product	suitable for	dimensions (mm)	descriptions / installation
	Various accessories		+/- 25° swivel - Stainless steel



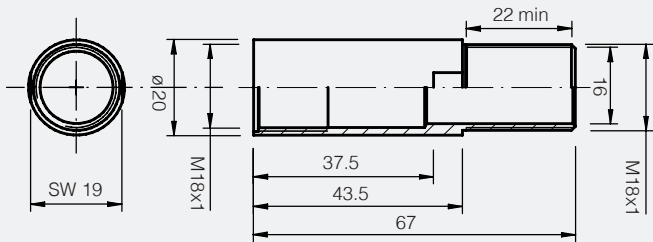
ST 104 ⁽¹⁾ / Horizontal mounting bracket with protective cover for miniaturized rectangular sensors QM series			
product	suitable for	dimensions (mm)	descriptions / installation
	Various accessories		• +/- 10° swivel • Stainless steel

STQMO / Vertical and horizontal diaphragms (0,5-1-2) for miniaturized rectangular sensors QM series																			
product	suitable for	dimensions (mm)	descriptions / installation																
	Various accessories		Packing units 2 <table><tr><td>dia.</td><td>0,5</td><td>1</td><td>2</td></tr><tr><td>Sn (EG=1)</td><td>1,5 m</td><td>2m</td><td>4,5 m</td></tr><tr><td>Sn (EG=2)</td><td>1 m</td><td>1,5 m</td><td>4 m</td></tr><tr><td>Min Ø</td><td>0,8 mm</td><td>1,5 mm</td><td>2,5 mm</td></tr></table>	dia.	0,5	1	2	Sn (EG=1)	1,5 m	2m	4,5 m	Sn (EG=2)	1 m	1,5 m	4 m	Min Ø	0,8 mm	1,5 mm	2,5 mm
dia.	0,5	1	2																
Sn (EG=1)	1,5 m	2m	4,5 m																
Sn (EG=2)	1 m	1,5 m	4 m																
Min Ø	0,8 mm	1,5 mm	2,5 mm																

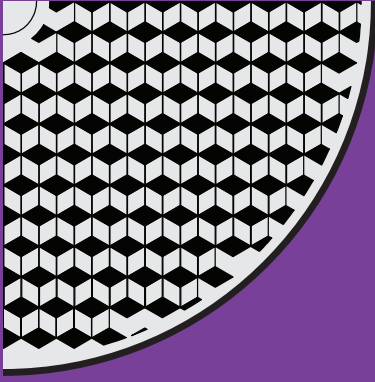
STQMS ⁽²⁾ / 20 Cross-slotted screws, 20 Hexagon nuts, 20 Lockwashers Ø3 for miniaturized rectangular sensors QM series			
product	suitable for	dimensions (mm)	descriptions / installation
	Various accessories		Sold in lots for 10 sensors ⁽²⁾

⁽¹⁾ Can be used only for cable or pig-tail exit models
⁽²⁾ Components not present in standard sensors packaging

extension ST 86 for BX80	
description	
The kit is composed from two extensions in nickel-plated brass M18. These extensions allow to install barriers BX80 in substitution to the AX80 without to modify the wiring and the mechanical assembly, in how much through the ST 86 is possible to maintain the alignment optical of the AX80	







Reflectors

% reflector

model ⁽¹⁾	RL098	RL100	RL100D (50x50mm)	RL100 DA4	RL100 DC4	RL100 DQ1	RL102	RL103	RL104	RL105G	RL106G	RL107	RL110	
DMP	-	-	40	55	50	50	25	50	50	50	80	125	100	
FAIC_axial	20	10	20	40	25	30	35	50	50	40	80	105	100	
FAIM_axial	20	10	20	40	25	30	35	50	50	40	80	105	100	
FAIC_90°	20	10	20	40	25	30	35	50	50	40	80	105	100	
FAIM_90°	20	10	20	40	25	30	35	50	50	40	80	105	100	
FARN_axial	-	-	25	40	30	35	40	45	50	40	80	110	100	
FARP_axial	-	-	25	40	30	35	40	45	50	40	80	110	100	
FARN_90°	-	-	20	35	25	30	30	25	35	40	110	130	100	
FARP_90°	-	-	20	35	25	30	30	25	35	40	110	130	100	
FARL_axial	-	-	-	-	-	-	-	-	-	-	-	-	100	
FARL_90°	-	-	-	-	-	-	-	-	-	-	-	-	100	
FALN	-	-	20	20	15	20	30	40	45	70	90	85	100	
SSC	20	10	15	35	30	30	30	40	50	40	80	110	100	
SPC	20	10	15	35	30	30	30	40	50	40	80	110	100	
SSP	-	-	-	-	-	-	5	40	50	30	70	110	100	
SPP	-	-	-	-	-	-	5	40	50	30	70	110	100	
MSC	20	10	25	45	35	40	35	50	60	45	100	115	100	
MPC	20	10	25	45	35	40	35	50	60	45	100	115	100	
MSP	-	-	35	35	35	35	25	50	70	50	110	115	100	
MPP	-	-	35	35	35	35	25	50	70	50	110	115	100	
SAC	30	15	25	40	40	40	25	40	45	45	100	115	100	
SAP	-	-	25	35	35	35	25	40	50	40	90	120	100	
MVC	20	10	25	45	35	45	30	50	60	40	90	110	100	
MVP	-	-	20	25	30	30	25	20	35	35	60	105	100	
FQIC_axial	30	15	30	75	40	45	40	50	50	50	95	105	100	
FQIC_90°	15	20	30	75	40	50	25	40	55	40	90	105	100	
FQRN_axial	-	-	30	30	30	30	40	50	50	45	90	110	100	
FQRN_90°	-	-	30	35	30	30	40	50	50	40	90	110	100	
FQRL_axial	-	-	-	-	-	-	-	-	-	-	-	-	100	
FQRL_90°	-	-	-	-	-	-	-	-	-	-	-	-	100	
FFRN	-	-	25	30	30	30	35	45	50	45	90	110	100	
FFRP	-	-	25	30	30	30	35	45	50	45	90	110	100	
FFRL	-	-	-	-	-	-	-	-	-	-	-	-	100	
QXP	-	-	30	35	35	35	25	30	40	40	80	110	100	
QXC	-	-	-	40	30	15	20	25	35	40	90	100	100	
BVC	40	20	35	85	50	55	40	50	55	50	95	110	100	
BSC	40	20	35	85	50	55	40	50	55	50	95	110	100	
PSC	-	-	-	30	25	25	20	20	10	40	30	115	100	
RXC	25	20	25	50	30	40	30	30	20	35	80	95	100	
RXP	-	-	30	50	35	40	10	10	40	45	60	110	100	
QMIC	40	20	30	40	20	35	30	40	40	40	90	100	100	
QMIG	-	-	-	-	-	-	-	-	-	-	-	-	100	
QMRG_LP	-	-	-	-	-	-	-	-	-	-	-	-	100	
QMRG	-	-	-	-	-	-	-	-	-	-	-	-	100	
Q50RN	-	-	25	35	25	30	35	45	50	40	80	105	100	
FGRN	5	-	15	30	30	30	35	50	55	45	75	105	100	
QMRN	-	-	15	35	30	35	15	30	40	50	90	120	100	
QMRL	-	-	-	-	-	-	-	-	-	-	-	-	100	
protection degree ⁽²⁾	IP67													
material	acrylic / polycarbonate													

⁽¹⁾ Refer to individual data sheets for detailed specifications of the photoelectric sensors

⁽²⁾ Applications involving water immersion or atmospheres with steam or water vapour clouds are not advised

To ensure constant detection performance, especially when used at the maximum sensing range, it is important to keep the reflector surface clean by wiping with a damp cloth. When selecting a reflector, the ambient condition in which it is to be used should be taken into account, as dusty or high humidity atmospheres may cause the range to be limited to as low as 10 %.



	RL110	RL111G	RL112G	RL113G	RL116	RL130	RL131	RL133	RL201	RL202	RL203	RL204	model ⁽¹⁾
	100	30	35	75	50	55	30	25	-	-	-	-	DMP
	100	40	50	80	80	80	30	25	-	-	-	-	FAIC_axial
	100	40	50	80	80	80	30	25	-	-	-	-	FAIM_axial
	100	40	50	80	80	80	30	25	-	-	-	-	FAIC_90°
	100	40	50	80	80	80	30	25	-	-	-	-	FAIM_90°
	100	35	45	70	75	75	35	10	-	-	-	-	FARN_axial
	100	35	45	70	75	75	35	10	-	-	-	-	FARP_axial
	100	15	15	60	20	45	25	7	-	-	-	-	FARN_90°
	100	15	15	60	20	45	25	7	-	-	-	-	FARP_90°
	100	-	-	70	70	-	-	-	-	-	-	-	FARL_axial
	100	-	-	55	70	-	-	-	-	-	-	-	FARL_90°
	100	60	70	85	85	90	15	15	130	120	90	90	FALN
	100	45	50	75	85	85	40	25	-	-	-	-	SSC
	100	45	50	75	85	85	40	25	-	-	-	-	SPC
	100	40	45	70	110	80	25	-	-	-	-	-	SSP
	100	40	45	70	110	80	25	-	-	-	-	-	SPP
	100	35	50	80	80	100	40	35	-	-	-	-	MSC
	100	35	50	80	80	100	40	35	-	-	-	-	MPC
	100	50	40	60	90	60	30	25	-	-	-	-	MSP
	100	50	40	60	90	60	30	25	-	-	-	-	MPP
	100	20	55	80	90	80	35	10	-	-	-	-	SAC
	100	30	30	80	50	40	20	20	-	-	-	-	SAP
	100	50	40	70	70	75	30	25	-	-	-	-	MVC
	100	25	30	60	55	55	30	7	-	-	-	-	MVP
	100	40	55	75	90	70	30	25	-	-	-	-	FQIC_axial
	100	40	55	80	90	70	30	25	-	-	-	-	FQIC_90°
	100	35	50	75	80	70	30	25	-	-	-	-	FQRN_axial
	100	20	30	70	40	65	35	20	-	-	-	-	FQRN_90°
	100	-	-	55	60	-	-	-	-	-	-	-	FQRL_axial
	100	-	-	55	60	-	-	-	-	-	-	-	FQRL_90°
	100	35	45	75	80	70	35	25	-	-	-	-	FFRN
	100	35	45	75	80	70	35	25	-	-	-	-	FFRP
	100	-	-	55	45	-	-	-	-	-	-	-	FFRL
	100	55	40	50	70	70	20	25	-	-	-	-	QXP
	100	25	30	35	40	45	-	-	-	-	-	-	QXC
	100	35	55	85	95	95	35	30	-	-	-	-	BVC
	100	35	55	85	95	95	35	30	-	-	-	-	BSC
	100	30	30	45	45	60	10	-	-	-	-	-	PSC
	100	30	40	60	60	65	-	-	-	-	-	-	RXC
	100	25	35	45	25	60	-	-	-	-	-	-	RXP
	100	35	50	80	80	85	30	20	-	-	-	-	QMIC
	100	-	-	50	60	-	-	-	-	-	-	-	QMIG
	100	-	-	65	70	-	-	-	-	-	-	-	QMRG_LP
	100	-	-	65	70	-	-	-	-	-	-	-	QMRG
	100	40	35	60	80	80	25	20	-	-	-	-	Q50RN
	100	40	45	70	80	80	25	30	-	-	-	-	FGRN
	100	35	45	70	80	80	30	15	-	-	-	-	QMRN
	100	-	-	70	80	-	-	-	-	-	-	-	QMRL
	IP67												protection degree ⁽²⁾
	acrylic /polycarbonate												material

The range is calculate as follow:

range = max. sensing distance x reflector % x ambient condition%

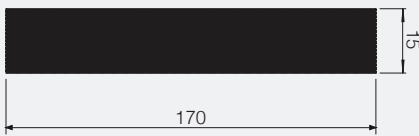
The ambient condition % is an arbitrary value that can be determined only be experimentation.

Typical values are: **clean = 100%; low levels of dust or humidity = 50%; moderate levels = 25%; high levels = 10%**

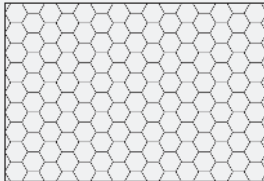
The reflectors should be positioned at 90° to the optical axis with a tolerance of ± 15°

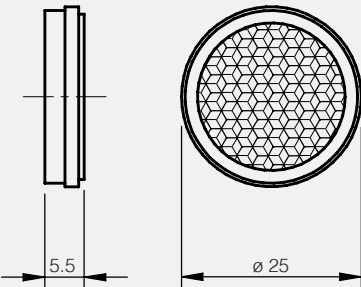
Please Note: Mechanical dimensions can vary without any advice



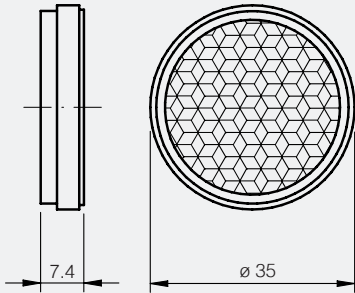
RL 098 LT			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-

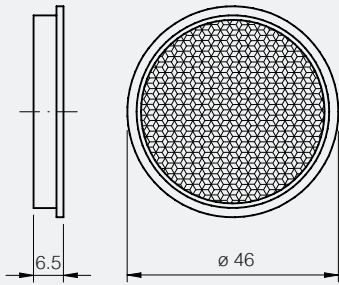
RL 100			
product	suitable for	dimensions (mm)	descriptions / installation
	retroreflective sensors	dimensions defined by user	RL 100: Dimensions defined by user. Max. dimension: 92 x 200 cm

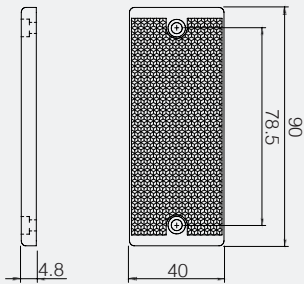
RL 100D / RL AGV / RL 100DA4 / RL 100DC4 / RL 100DQ1			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized sensors		RL 100D: Dimensions defined by user. Max. dimensions: 92 x 200 cm. RL AGV: Fixed height 92 cm - minimum length 50 cm - maximum length: 250 cm. RL 100DC4: Fixed height 50 cm - fixed length 30 cm RL 100DA4: Fixed height 30 cm - fixed length 20 cm RL 100DQ1: Fixed height 10 cm - fixed length 10 cm

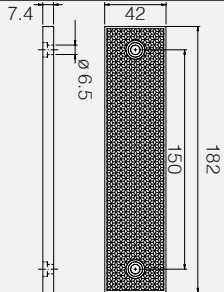
RL 102			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-



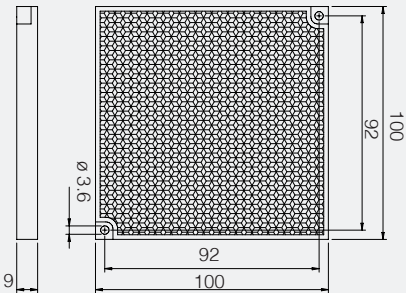
RL 103			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-

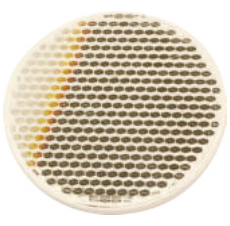
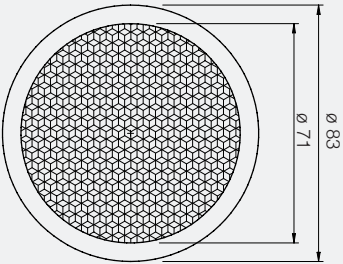
RL 104			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-

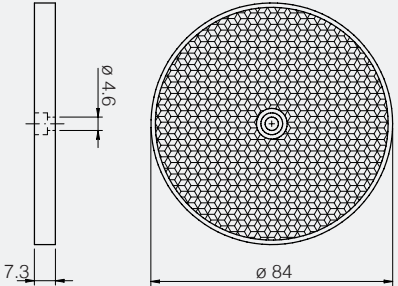
RL 105G			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-

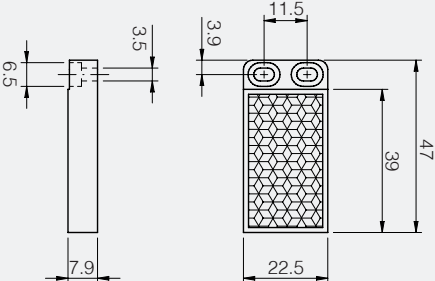
RL 106G			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-



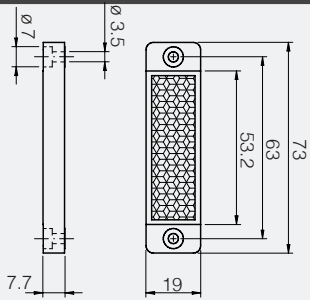
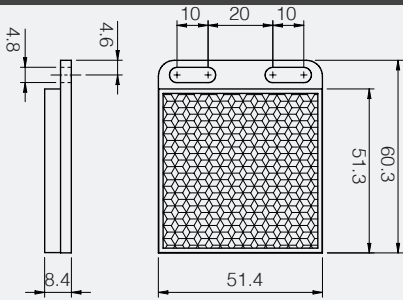
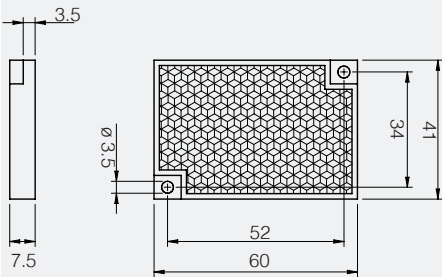
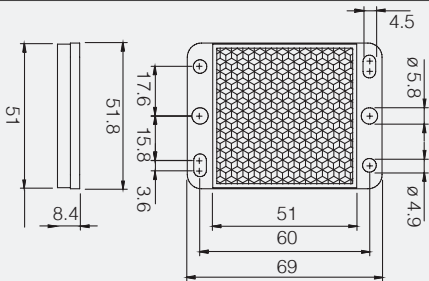
RL 107			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		

RL 109			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		

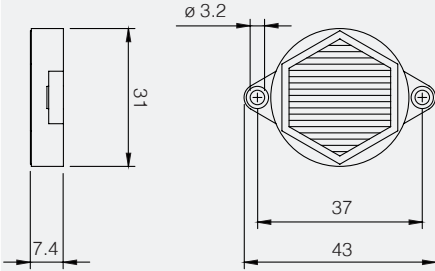
RL 110			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		

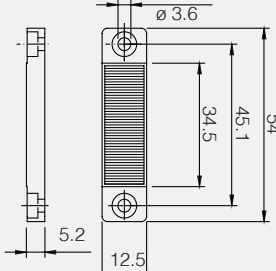
RL 111G			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		

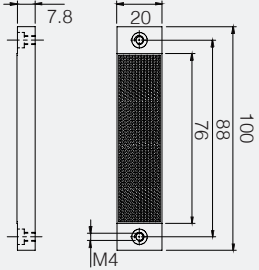


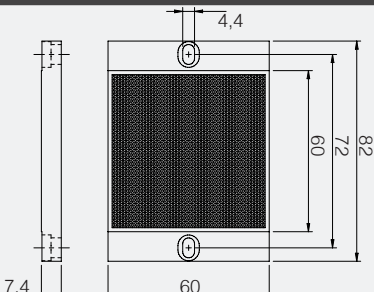
RL 112G			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-
RL 113G			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-
RL 116			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-
RL 130			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-



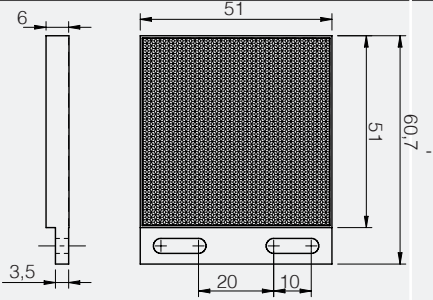
RL 131			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-

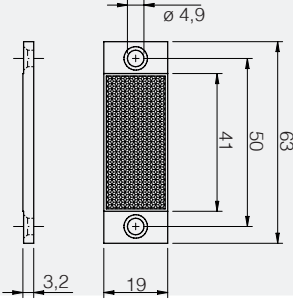
RL 133			
product	suitable for	dimensions (mm)	descriptions / installation
	polarized and retroreflective sensors		-

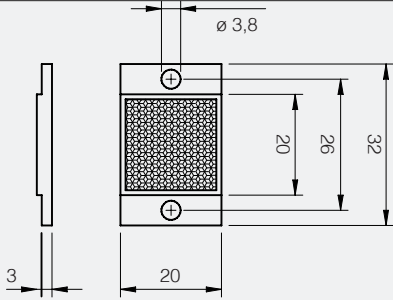
RL 135			
product	suitable for	dimensions (mm)	descriptions / installation
	Polarised and retroreflective sensors. CR0 area sensors		-

RL 201			
product	suitable for	dimensions (mm)	descriptions / installation
	LASER sensors		-

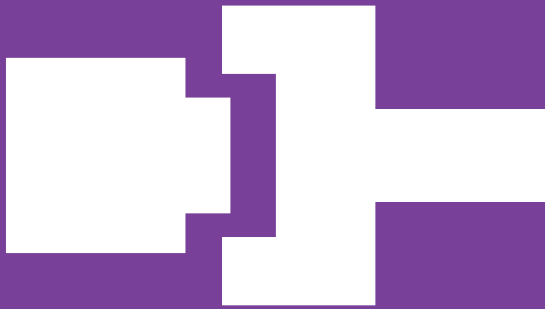


RL 202			
product	suitable for	dimensions (mm)	descriptions / installation
	LASER sensors		

RL 203			
product	suitable for	dimensions (mm)	descriptions / installation
	LASER sensors		

RL 204			
product	suitable for	dimensions (mm)	descriptions / installation
	LASER sensors		





Connectors



available models

connectors with PVC cable

plug	wires	led	axial	right angle	length (m)
M8	3		CD08/0A-***A1	CD08/0A-***C1	2 - 5 - 10
	4		CD08/0B-***A1	CD08/0B-***C1	
M12	3 NO		CD12M/AA-***A1	CD12M/AA-***C1	
	4		CD12M/0B-***A1	CD12M/0B-***C1	
	3 NO-NPN	2 led		CD12M/NA-***C1	
	3 NO-NPN			CD12M/PA-***C1	
	4 NO/NC-PNP			CD12M/VB-***C1	
	4 DECOU [®]	Bi-led		CD12M/DB-***C1	
M12 IP69K	4	-	CD12F/0B-050A1	CD12F/0B-050C1	5
		3	-	CD12F/LB-050C1	

available models

connectors with PUR cable

plug	wires	led	axial	right angle	length (m)
M8	3		CD08/0A-***A5	CD08/0A-***C5	2 - 5 - 10
	4		CD08/0B-***A5	CD08/0B-***C5	
M12	3		CD12M/AA-***A5	CD12M/AA-***C5	
	4		CD12M/0B-***A5	CD12M/0B-***C5	
		3	-	CD12M/LB-***C5	5 - 10
	5		CD12M/0H-***A5	CD12M/0H-***C5	2 - 5 - 10
	8		CD12M/0X-***A5	-	5 - 10 - 15
M12 (AC)	3		CD12M/AC-050A5	CD12M/AC-050C5	5



available models

connectors without cable

plug	type	connection	wires	axial	right angle
M8	male	spring terminals	3	CV08/1A-00A	-
			4	CV08/1B-00A	-
		screw terminals	3	CV08/0A-00A	-
			4	CV08/0B-00A	-
	female	spring terminals	3	CL08/1A-00A	-
			4	CL08/1B-00A	-
		screw terminals	3	CL08/0A-00A	-
			4	CL08/0B-00A	-
M12	male		4	CV12/0B-00A	CV12/0B-00B
	female			CL12/0B-00A	CL12/0B-00C
	male		5	CV12/0H-00A	CV12/0H-00C
	female			CL12/0H-00A	CL12/0H-00C

available models

in line plug connectors

plug	type	connection	wires	model	cable diameter
M8	male	in line	4	CDV-37	ø 3,75 mm
				CDV-47	ø 4,7 mm
				CDV-50	ø 5 mm
				CDV-55	ø 5,5 mm

available models

extension cable

plug	wires	female plug	male plug	model	length (m)
M8	3	axial	axial	CDP08/0A-***AA	(*)
M12	4			CDP08/0B-***AA	
				CDP12/0B-***AA	

(*)= Please contact M.D. Sales Department for cable lenght and possible minimum orderable quantity.



available models

extended temperature connectors (-25°C...+105°C)

connector	nr. of wires	led	axial	right angle	length (m)
M12	4	-	CD12M/0B-***A1HT	CD12M/0B-***C1HT	5 - 10

available models

connectors with PVC cable and cCSAus certification

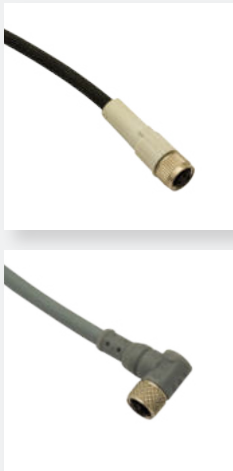
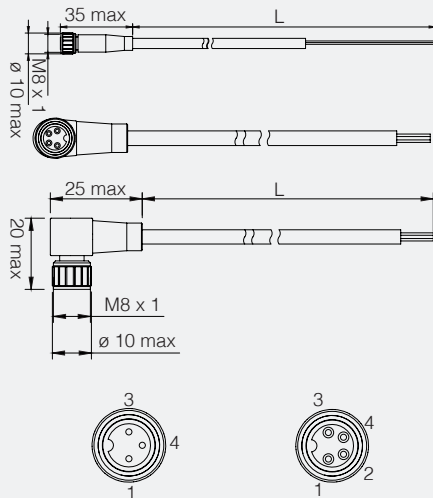
connector	nr. of wires	led	axial	right angle	length (m)
M8	3	-	CD08/0A-***A1US	CD08/0A-***C1US	5 - 10 - 15
			CD08/0B-***A1US	CD08/0B-***C1US	
M12	4		CD12/0B-***A1US	CD12/0B-***C1US	

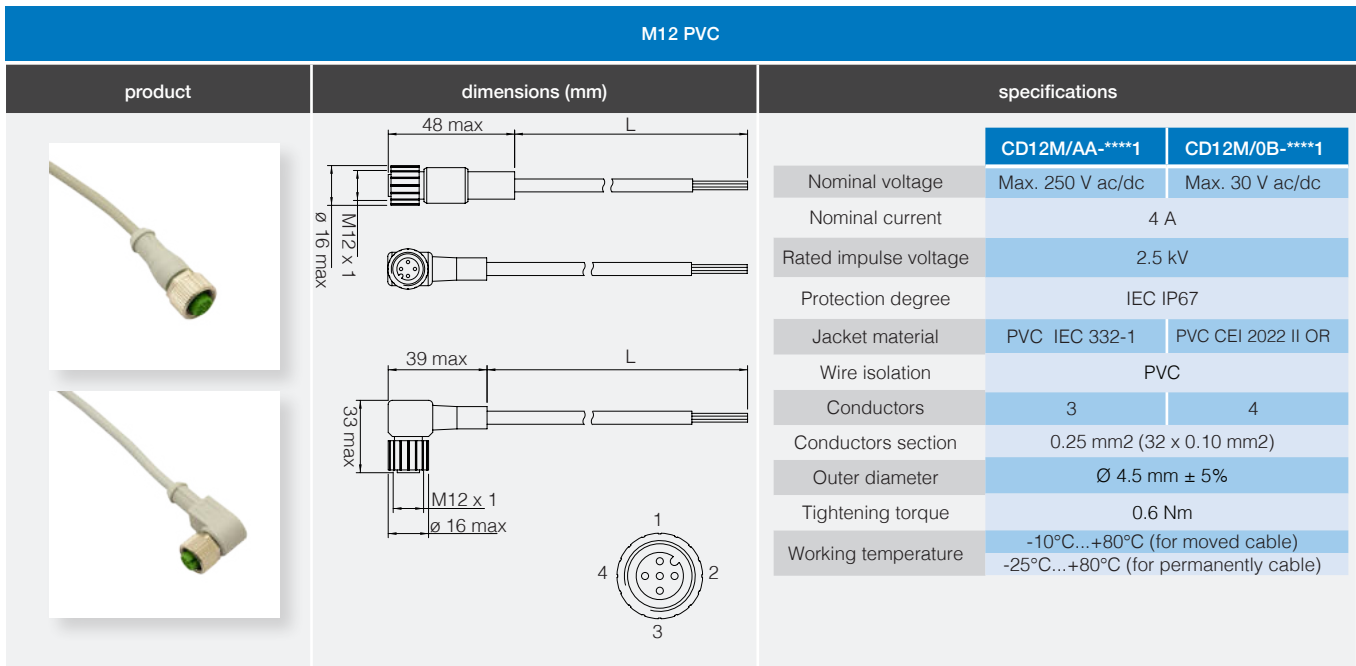
available models

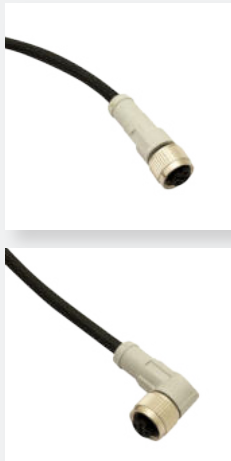
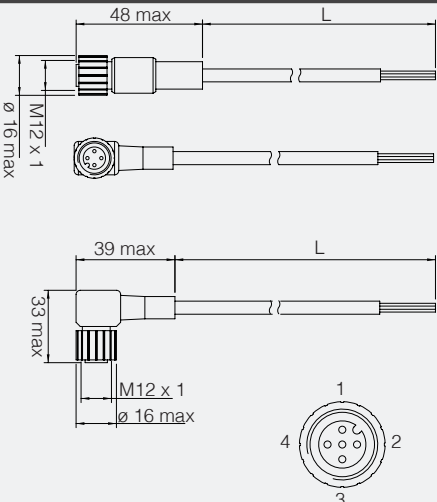
connectors with PUR cable and cCSAus certification

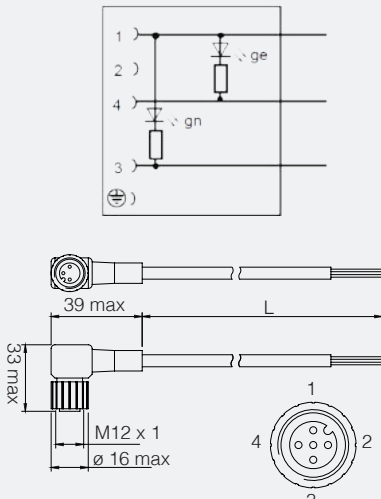
connector	nr. of wires	led	axial	right angle	length (m)
M8	3	-	CD08/0A-***A5US	CD08/0A-***C5US	5 - 10 - 15
			CD08/0B-***A5US	CD08/0B-***C5US	
M12	4		CD12/0B-***A5US	CD12/0B-***C5US	

M8 PUR

M8 PUR																																										
product		dimensions (mm)	specifications																																							
			<table><tr><th></th><th>CD08/0A-****5</th><th>CD08/0B-****5</th></tr><tr><td>Nominal voltage</td><td>Max. 60 V ac/dc</td><td>Max. 30 V ac/dc</td></tr><tr><td>Nominal current</td><td colspan="2">4 A</td></tr><tr><td>Rated impulse voltage</td><td colspan="2">1.5 kV</td></tr><tr><td>Protection degree</td><td colspan="2">IEC IP67</td></tr><tr><td>Jacket material</td><td colspan="2">PUR</td></tr><tr><td>Wire isolation</td><td colspan="2">PVC</td></tr><tr><td>Conductors</td><td>3</td><td>4</td></tr><tr><td>Conductors section</td><td>0.25 mm²(32x0.10 mm²)</td><td>0.25 mm²(32x0.10 mm²)</td></tr><tr><td>Outer diameter</td><td>Ø 3.75 mm±0.2mm</td><td>Ø 4.7 mm ± 0.2mm</td></tr><tr><td>Tightening torque</td><td colspan="2">0.4 Nm</td></tr><tr><td rowspan="2">Working temperature</td><td>-5°C...+80°C (for moved cable)</td><td>-5°C...+80°C (for moved cable)</td></tr><tr><td>-20°C...+80°C (for permanently cable)</td><td>-30°C...+70°C (for permanently cable)</td></tr></table>			CD08/0A-****5	CD08/0B-****5	Nominal voltage	Max. 60 V ac/dc	Max. 30 V ac/dc	Nominal current	4 A		Rated impulse voltage	1.5 kV		Protection degree	IEC IP67		Jacket material	PUR		Wire isolation	PVC		Conductors	3	4	Conductors section	0.25 mm²(32x0.10 mm²)	0.25 mm²(32x0.10 mm²)	Outer diameter	Ø 3.75 mm±0.2mm	Ø 4.7 mm ± 0.2mm	Tightening torque	0.4 Nm		Working temperature	-5°C...+80°C (for moved cable)	-5°C...+80°C (for moved cable)	-20°C...+80°C (for permanently cable)	-30°C...+70°C (for permanently cable)
	CD08/0A-****5	CD08/0B-****5																																								
Nominal voltage	Max. 60 V ac/dc	Max. 30 V ac/dc																																								
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Rated impulse voltage	1.5 kV																																									
Protection degree	IEC IP67																																									
Jacket material	PUR																																									
Wire isolation	PVC																																									
Conductors	3	4																																								
Conductors section	0.25 mm²(32x0.10 mm²)	0.25 mm²(32x0.10 mm²)																																								
Outer diameter	Ø 3.75 mm±0.2mm	Ø 4.7 mm ± 0.2mm																																								
Tightening torque	0.4 Nm																																									
Working temperature	-5°C...+80°C (for moved cable)	-5°C...+80°C (for moved cable)																																								
	-20°C...+80°C (for permanently cable)	-30°C...+70°C (for permanently cable)																																								

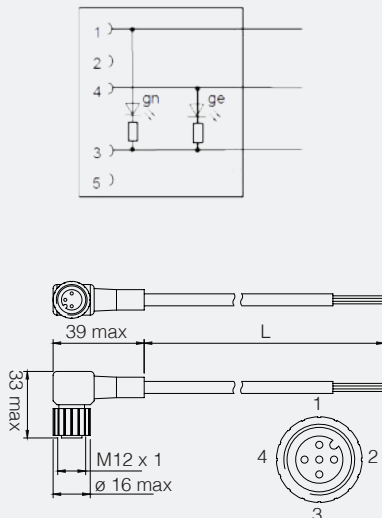


M12 PUR				
product	dimensions (mm)	specifications		
				
		CD12M/AA-****5	CD12M/0B-****5	
		Nominal voltage	Max. 250 V ac/dc	
		Nominal current	4 A	
		Rated impulse voltage	2.5 kV	
		Protection degree	IEC IP67	
		Jacket material	PUR	
		Wire isolation	PVC	
		Conductors	3	4
		Conductors section	0.25 mm² (32 x 0,10 mm²)	
		Outer diameter	Ø 3.75 mm±0,2mm	Ø 4.7 mm ± 5%
		Tightening torque	0.6 Nm	
		Working temperature	-5°C...+80°C (for moved cable) -20°C...+80°C (for permanently cable)	

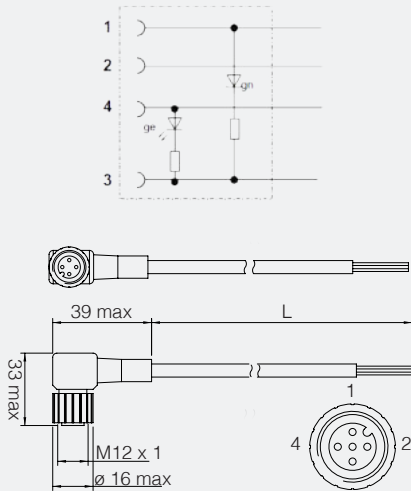
M12 LED 3 wires NO/NPN																						
product	dimensions (mm)	specifications																				
		CD12M/NA-***C1																				
		<table><tr><td>Nominal voltage</td><td>Max. 250 V ac/dc</td></tr><tr><td>Nominal current</td><td>4 A</td></tr><tr><td>Rated impulse voltage</td><td>2.5 kV</td></tr><tr><td>Protection degree</td><td>IEC IP67</td></tr><tr><td>Jacket material</td><td>PVC CEI 2022 II OR</td></tr><tr><td>Wire isolation</td><td>PVC</td></tr><tr><td>Conductors</td><td>4</td></tr><tr><td>Conductors section</td><td>0.25 mm² (32 x 0,10 mm²)</td></tr><tr><td>Outer diameter</td><td>Ø 4.5 mm ± 5%</td></tr><tr><td>Tightening torque</td><td>0.6 Nm</td></tr><tr><td>Working temperature</td><td>-10°C...+80°C (for moved cable) -25°C...+80°C (for permanently cable)</td></tr></table>	Nominal voltage	Max. 250 V ac/dc	Nominal current	4 A	Rated impulse voltage	2.5 kV	Protection degree	IEC IP67	Jacket material	PVC CEI 2022 II OR	Wire isolation	PVC	Conductors	4	Conductors section	0.25 mm² (32 x 0,10 mm²)	Outer diameter	Ø 4.5 mm ± 5%	Tightening torque	0.6 Nm
Nominal voltage	Max. 250 V ac/dc																					
Nominal current	4 A																					
Rated impulse voltage	2.5 kV																					
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Jacket material	PVC CEI 2022 II OR																					
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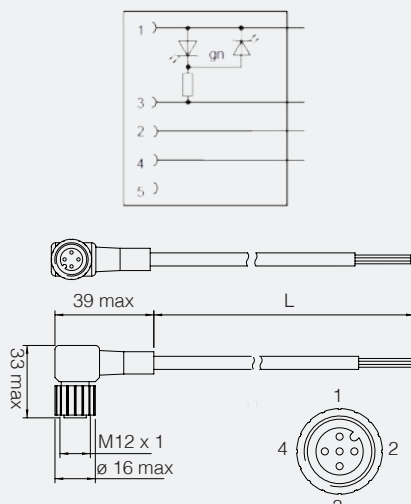
M12 LED 3 wires NO/PNP

product	dimensions (mm)	specifications																				
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M12 LED 4 wires NO/NC - PNP

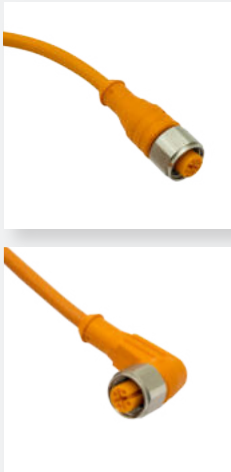
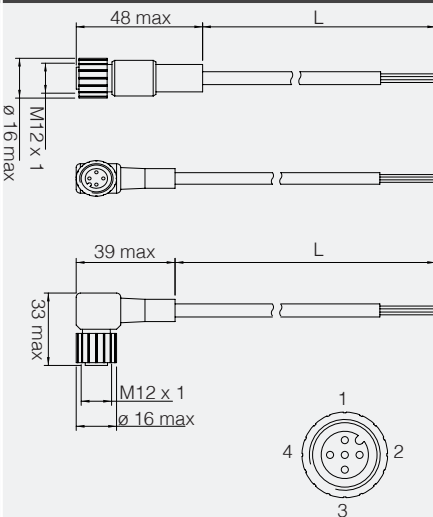
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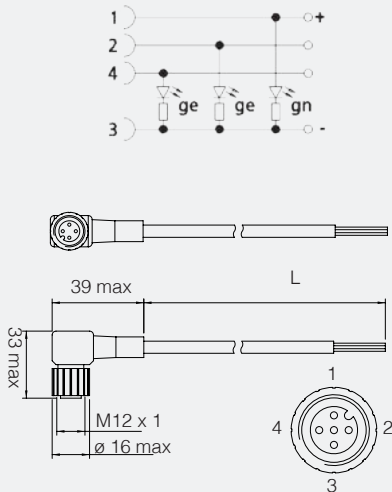
M12 LED 4 wires DECOU®

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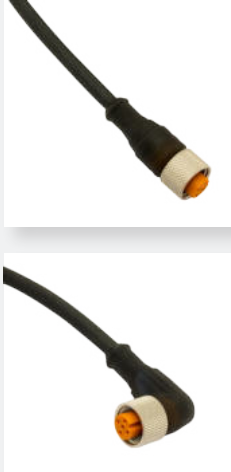
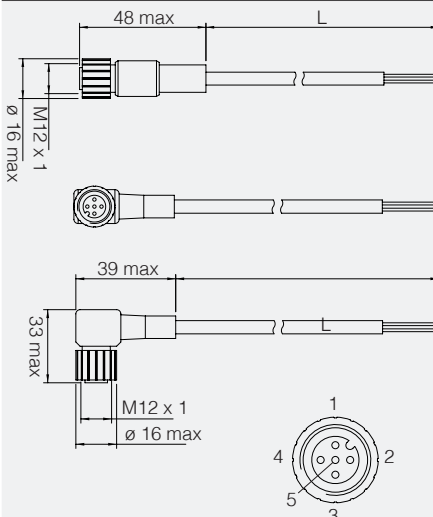


M12 IP69K

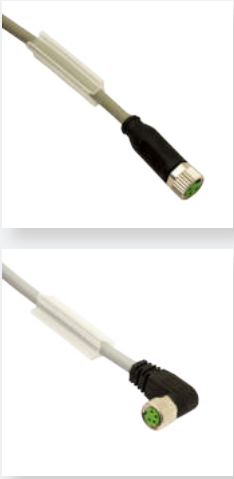
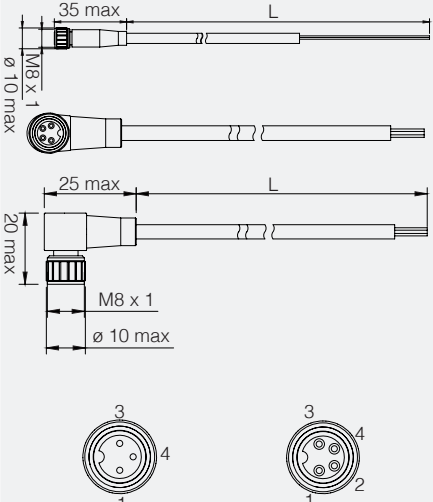
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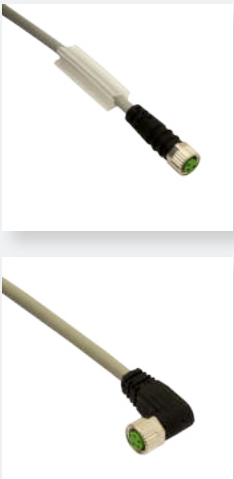
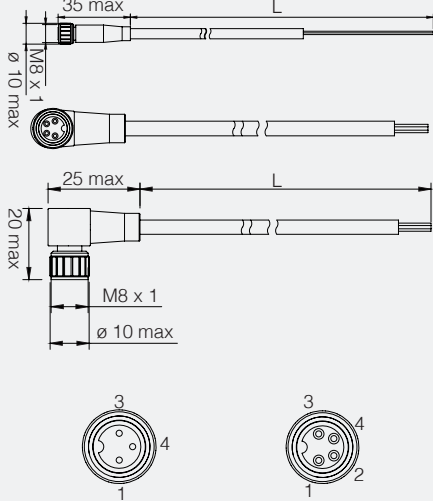
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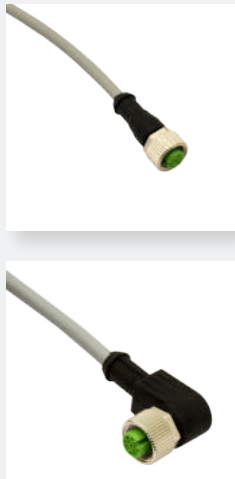
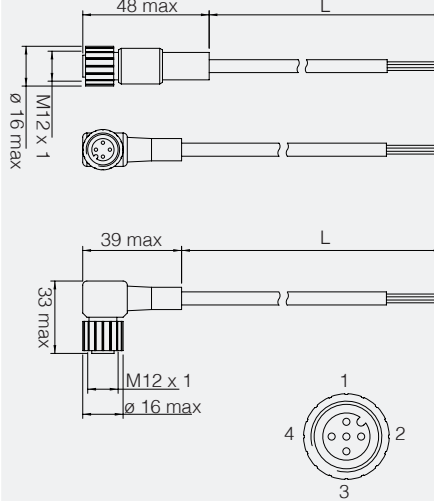
CD12M-0H

product	dimensions (mm)	specifications																						
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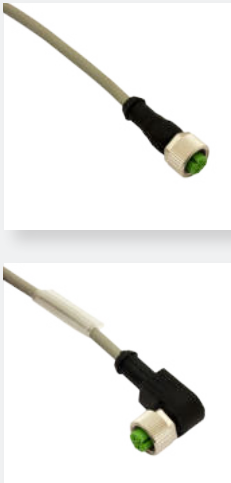
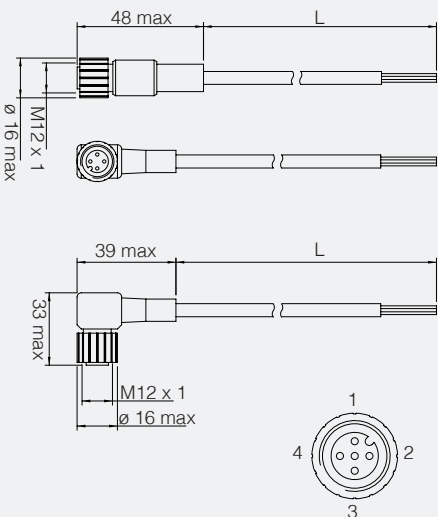
M8 PVC cCSAus																																						
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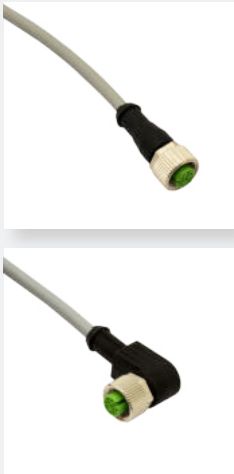
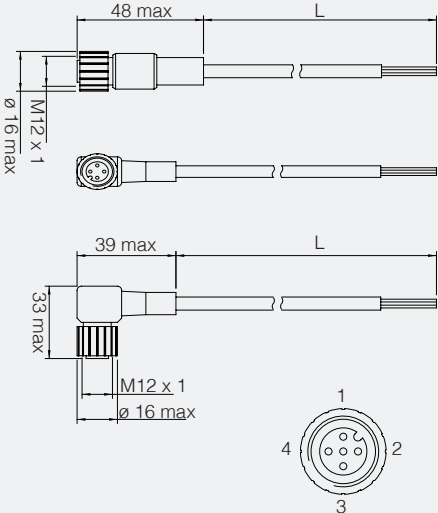
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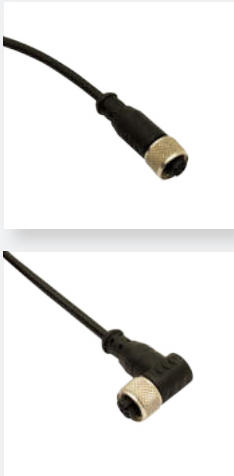
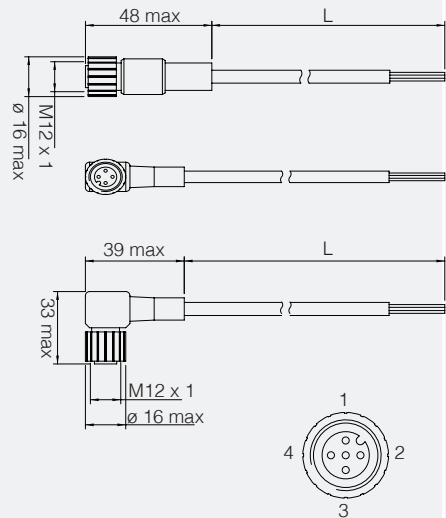
M12 PUR cCSAus

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M12 PVC cCSAus

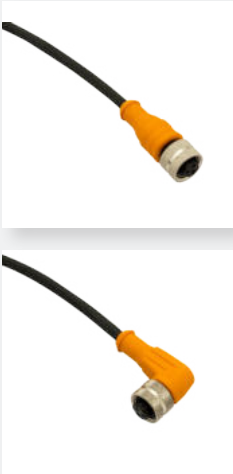
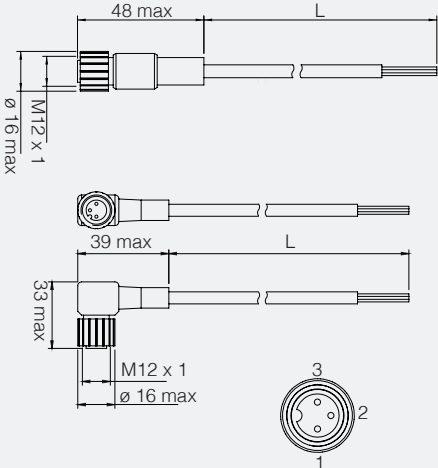
product	dimensions (mm)	specifications																								
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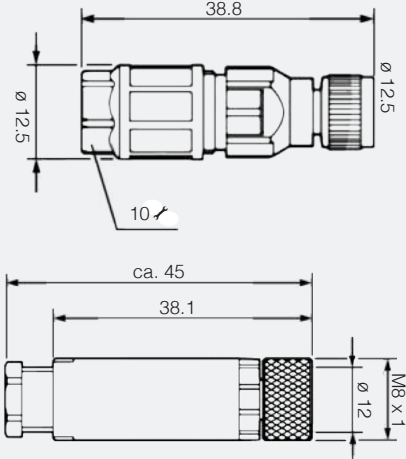
M12 extended temperature

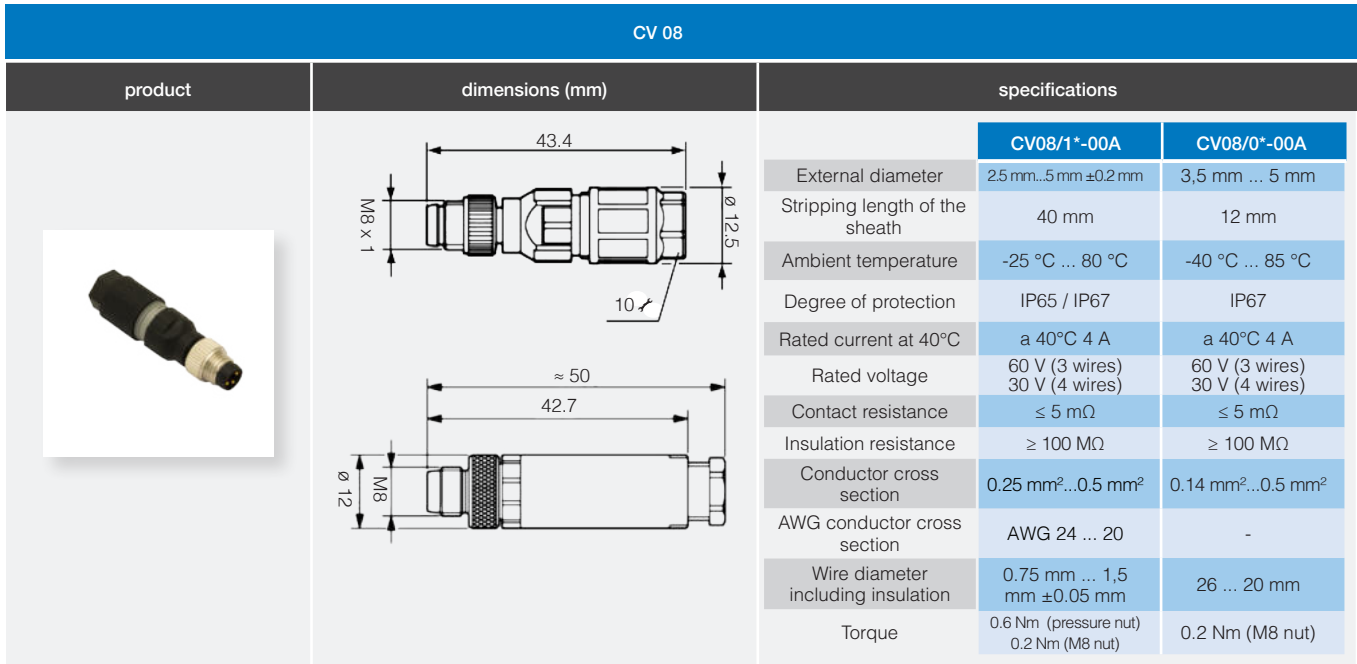
product	dimensions (mm)	specifications																									
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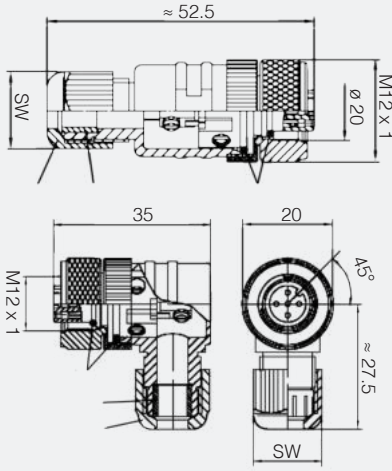
M12 8 wires																										
product	dimensions (mm)	specifications																								
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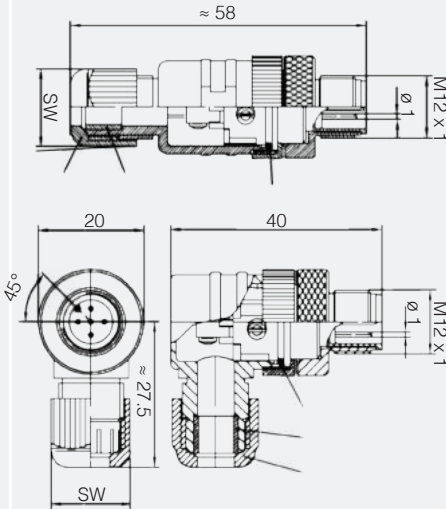
M12 AC																										
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CL08																																									
product	dimensions (mm)	specifications																																							
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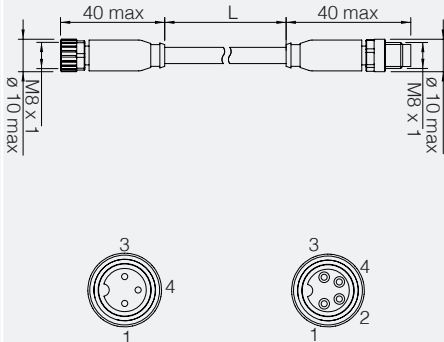


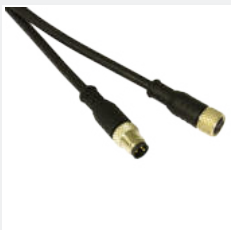
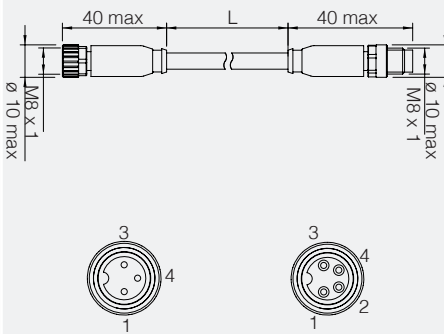
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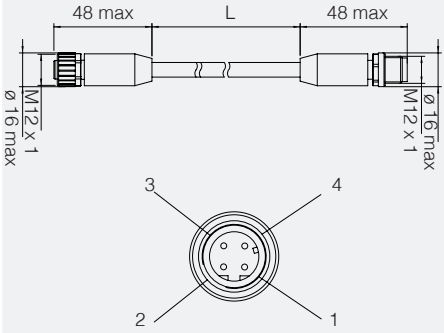
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CV 12			
product	dimensions (mm)	specifications	
 			CV12/0H-00*
		Cable external diameter	3 mm ... 6,5 mm
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		Ambient temperature	-25 °C ... 90 °C
		Degree of protection	IP67
		Rated current at 40°C	4 A
		Rated voltage	250 V
		Contact resistance	≤ 5 mΩ
		Insulation resistance	≥ 100 MΩ
		Conductor cross section	Max. 0.75 mm ²



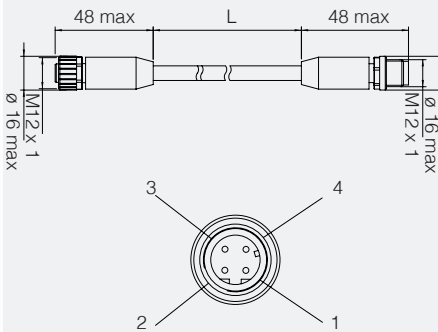
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CDP 08 PUR					
product		dimensions (mm)		specifications	
					
				CDP08/0A-***AA8F	CDP08/0B-***AA8F
		Nominal voltage		Max. 60 V ac/dc	Max. 30 V ac/dc
		Nominal current		4 A	
		Rated impulse voltage		1.5 kV	
		Protection degree		IEC IP67	
		Jacket material		PUR	PVC CEI 2022 II OR
		Wire isolation		PVC	
		Conductors		3	4
		Conductors section		0.25 mm² (32 x 0.10 mm²)	0.25 mm² (32 x 0.10 mm²)
		Outer diameter		Ø 3.75 mm ± 0,2 mm	Ø 4.7 mm ± 0,2 mm
		Tightening torque		0.6 Nm	
		Working temperature		-5°C...+80°C (for moved cable)	-5°C ÷ +80°C (for moved cable)
				-20°C ÷ +80°C (for permanently cable)	-30°C ÷ +70°C (for permanently cable)

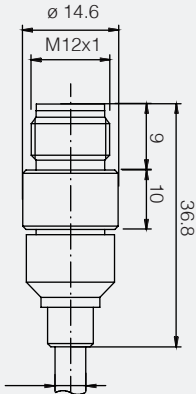
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CDP 12 PUR

product	dimensions (mm)	specifications																				
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Working temperature	-5°C ÷ +80°C (for moved cable) -20°C ÷ +80°C (for permanently cable)																					

CDV

product	dimensions (mm)	specifications				
			CDV-37	CDV-47	CDV-50	CDV-55
		Hole diameter	3,75 mm	4,7 mm	5 mm	5,5 mm
		Connections	to solder			
		Nominal voltage	60 Vdc - 48 Vac			
		Nominal current	4 A			
		Protection degree	IEC IP65			
		Housing material	nickel-plated brass			
		Plug connector material	polyammide 66 GV, V0 UL94			
		Contacts material	nickel-plated brass with surface gold-plating			
		O-Ring material	NBR 72			