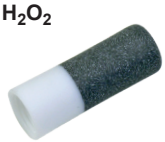
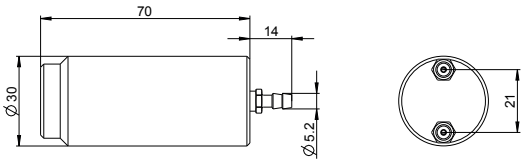
Accessories

FILTER CAPS FOR HUMIDITY AND DEWPOINT SENSORS WITH PROBE Ø12 mm (0.47")

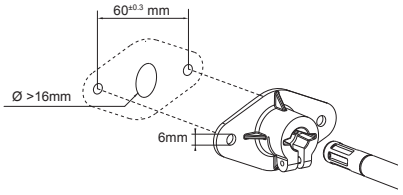
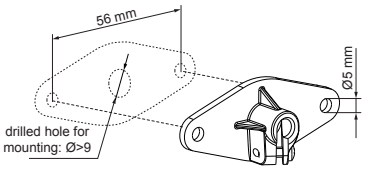
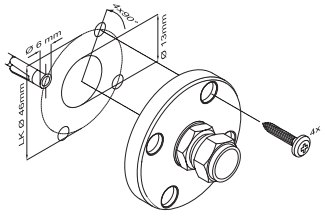
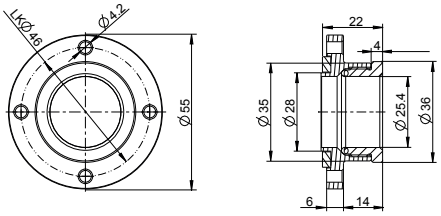
The right choice of appropriate filter cap is essential for best long term performance in the application.
For assistance please contact the E+E representative - www.epluse.com/en/service-support/locations-distributors/.

FILTER NAME	CONSTRUCTION	FEATURES	APPLICATIONS	ORDER CODE
Membrane	Body: polycarbonate Filter: PTFE membrane Pores size: 1 µm Length: 34 mm (1.34")	• Very good protection against fine dust • T range: -40…80 °C (-40...176 °F) • Response time t10/90: 15 s	• Building automation • Dusty environment	**HA010101** (light grey) **HA010118** (black)
Stainless steel sintered	Material: sintered stainless steel Pores size: 10 µm Length: 33 mm (1.30")	• For high mechanical stress and strong pollution • T range: -40…180 °C (-40...356 °F) • Response time t10/90: 30 s	• Industrial process control • Agriculture • Life stock barns	**HA010103** (for plastic probes) **HA010117** (for metal probes)
PTFE	Material: PTFE sintered Pores size: 50 µm Length: 33 mm (1.30")	• For very dirty, oily environment • T range: -40…180 °C (-40...356 °F) • Response time t10/90: 14 s	• Industrial process control • Chemical industry • Very polluted environment	**HA010105**
Metal grid	Body: polycarbonate Filter: stainless steel wire mesh Pores size: 30 µm Length: 33 mm (1.30")	• For high RH / condensing environment, • low mechanical stress and • low pollution level • T range: -40…120 °C (-40...248 °F) • Response time t10/90: 15 s	• Climate control • Dryers and humidifiers • HVAC	**HA010106** (light grey) **HA010119** (black)
Stainless steel grid	Body: stainless steel Filter: stainless steel wire mesh Pores size: 30 µm Length: 39 mm (1.54")	• For high RH / condensing environment, • average mechanical stress and • low pollution level • T range: -40…180 °C (-40...356 °F) • Response time t10/90: 15 s	• Industrial process control • Clean rooms	**HA010109**
H_2O_2 	Material: PTFE sintered Pores size: 50 µm Length: 33 mm (1.30")	• Catalytic filter for H_2O_2 environment • T range: -40…180 °C (-40...356 °F) • Response time t10/90: 14 s	• Pharma • Biotech • Sterilization with H_2O_2	**HA010115**
PTFE stainless steel	Body: stainless steel Filter: PTFE membrane, replaceable Pores size: 2 µm Length: 39 mm (1.54")	• For high RH / condensing environment, • high pollution levels • T range: -40…180 °C (-40...356 °F) • Response time t10/90: 14 s • Water ingression pressure > 0.5 bar	For EE33-J and EE33-K in: • Meteorology, outdoor • Climate control	**HA010114** (complete filter) **HA010114ME** (PTFE membrane)
Metal grid for EE08	Body: polycarbonate Filter: stainless steel wire mesh Pores size: 30 µm Length: 25 mm (1")	• For high RH / condensing environment, • low mechanical stress, • low pollution level • T range: -40…120 °C (-40...248 °F) • Response time t10/90: 15 s	• Meteorology, outdoor • Climate control	**HA010113**
Stainless steel	Material: stainless steel Openings: ø3 mm Length: 32 mm (1.26")	• For moisture in oil measuring devices	• Hydraulic, lubrication and isolation oil monitoring	**HA010110**

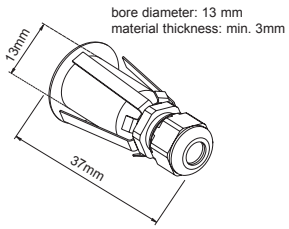
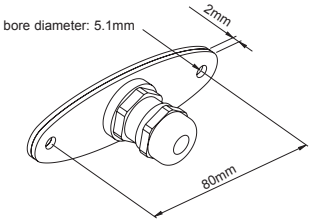
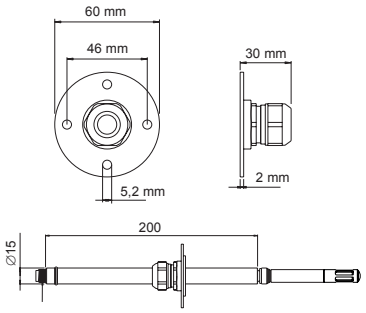
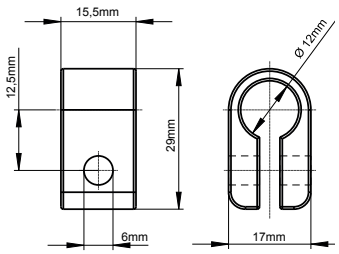
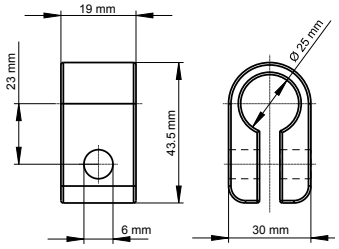
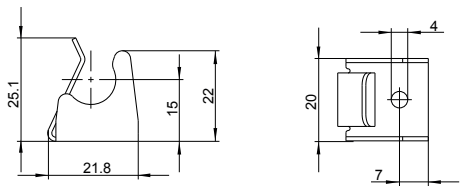
FILTER CAPS FOR EE872 CO2 PROBES Ø25 mm (0.98“)

NAME	CONSTRUCTION	FEATURES	APPLICATIONS	ORDER CODE
PTFE	Material: PTFE sintered Pores size: 50 µm Length: 62 mm (2.44”)	• Standard filter for CO_2 probes • T range: -40…60 °C (-40...140 °F)	• Greenhouses • Agriculture • Outdoor CO_2 monitoring	HA010123
H_2O_2	Material: PTFE sintered Pores size: 50 µm Length: 62 mm (2.44”)	• Catalytic filter for H_2O_2 environment • T range: -40…60 °C (-40...140 °F)	• Pharma • Biotech • Sterilization with H_2O_2	HA010124
Calibration adapter / Protection cap	Material: Polycarbonate	Dimensions in mm 		HA010785

MOUNTING FLANGES

NAME	SUITABLE FOR	DIMENSIONS in mm	ORDER CODE
Plastic flange Ø12 mm (0.47“)	EE072 EE160 EE210 EE576 EE650 EE660 EE850 EE8915		HA010202 (light grey)
	EE060 EE061 EE671		HA010214 (black)
Plastic flange Ø6 mm (0.24“)	EE074 EE150 EE431		HA401101
Stainless steel flange Ø12 mm (0.47“)	EE072 EE074 EE23 EE33 EE310 EE1900 EE1950		HA010201
Stainless steel flange Ø25 mm (0.98“)	EE872		HA010226

MOUNTING FLANGES

NAME	SUITABLE FOR	DIMENSIONS in mm	ORDER CODE
Stainless steel flange Ø5 mm (0.2")	EE23 - model T6		HA010208
Stainless steel flange Ø8 mm (0.3")	EE074 EE33-MFTJ (temperature probe) EE75		HA010207
Duct mounting kit	EE07		HA010209
Wall mounting clip Ø12 mm (0.47")	All probes Ø12 mm (0.47") T range: -40...60 °C (-40...140 °F) Material: LDPE		HA010211
Wall mounting clip Ø25 mm (0.98")	EE872 T range: -40...60 °C (-40...140 °F) Material: LDPE		HA010227
Stainless steel wall mounting clip Ø12 mm (0.47")	EE23 EE33 EE310 EE1900 EE1950	Material: stainless steel 1.4404 	HA010225

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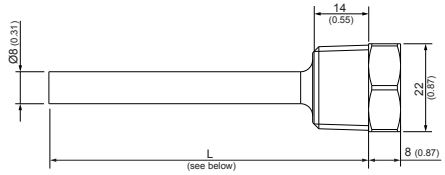
MOUNTING FLANGES

NAME	SUITABLE FOR	DIMENSIONS in mm	ORDER CODE
Immersion well	EE074 EE431 EE461 EE462 EE471		

length (L)		R½“ ISO	½“ NPT
50 mm (1.97“)	brass	HA400101	HA400111
	stainless steel	HA400201	HA400211
100 mm (3.94“)	brass	HA400104	HA400114
	stainless steel	HA400204	HA400214
135 mm (1.97“)	brass	HA400102	HA400112
	stainless steel	HA400202	HA400212
285 mm (11.22“)	brass	HA400103	HA400113
	stainless steel	HA400203	HA400213

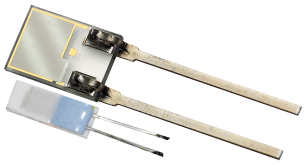
LC DISPLAYS

NAME	SUITABLE FOR		ORDER CODE
LC display + cover	EE23	metal	D03M-EE23
		polycarbonate	D03P-EE23
	EE23-T5	metal	D05M-EE23T5
		polycarbonate	D05P-EE23T5
	EE33	metal	D05M-EE33
	EE220	metal	D07M-EE220
		polycarbonate	D07P-EE220

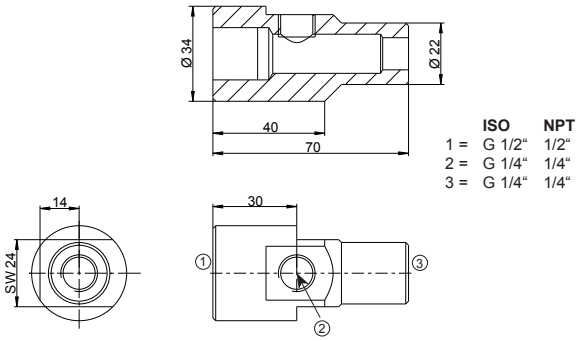
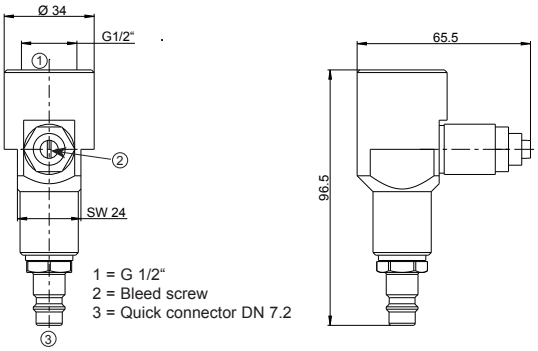
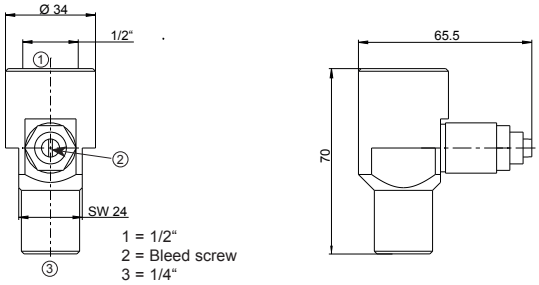
POWER SUPPLY UNIT

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Power supply adapter	All E+E devices with 24 V DC supply max: 0.625 A	External power supply 100-240 V AC / 50-60 Hz 0.5 A Suitable for Europe / US / UK / Korea / China	V03

REPLACEMENT SENSING ELEMENTS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Replacement sensing elements 	EE23 EE310	Replacement humidity sensing elements	FE09 FE09-HC01 (with proprietary coating)
		Replacement temperature sensing elements	TE38

SAMPLING CELLS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Basic sampling cell	EE354 EE355 EE371	The basic sampling cell is designed for a pressure range from 0...64 bar (0...928 psi). It allows a simple integration of a dew point sensor into a self-constructed sampling system. Dimensions in mm:  ISO NPT 1 = G 1/2“ 1/2“ 2 = G 1/4“ 1/4“ 3 = G 1/4“ 1/4“	ISO: **HA050103** NPT: **HA050105**
ISO sampling cell	EE354 EE355 EE371	The sampling cell is optimized for compressed air lines with pressure range 0...10 bar (0...145 psi). The flow of air can be adjusted with the bleed screw. The G ½” ISO version features a quick connector suitable for standard DN7.2 air connection, which allows for the sampling cell to be mounted and removed without process interruption. Dimensions for ISO (in mm):  1 = G 1/2“ 2 = Bleed screw 3 = Quick connector DN 7.2	ISO: **HA050102**
NPT sampling cell		Dimensions for NPT (in mm):  1 = 1/2“ 2 = Bleed screw 3 = 1/4“	NPT: **HA050107**

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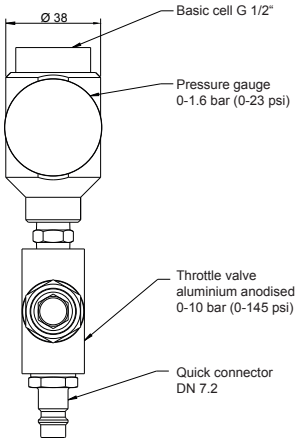
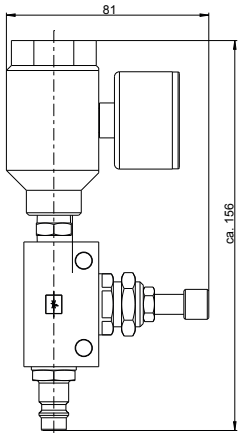
SAMPLING CELLS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Sampling cell for atmospheric dew point	EE354 EE355 EE371	The sampling cell is optimized for measuring the athmoperic dew point temperature in compressed air lines with pressure range 0...10 bar (0...145 psi). It features a quick connector suitable for standard DN7.2 air connection, which allows for the sampling cell to be mounted and removed without process interruption. The pressure in the sampling cell could be zeroed by the needle valve. Dimensions in mm:  	**HA050106**

DRIP WATER PROTECTION

In applications with high humidity and condensation or for outdoor use, sensor probes should be protected against dripping water.

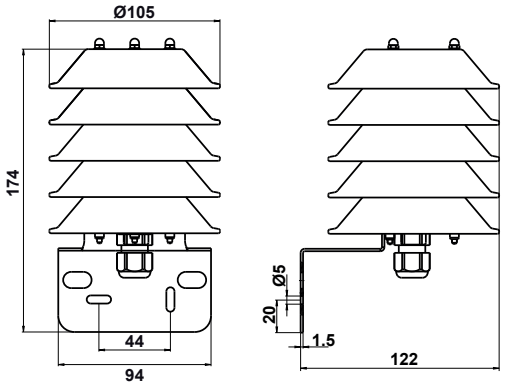
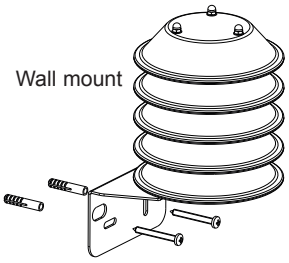
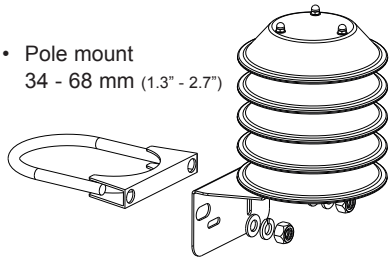
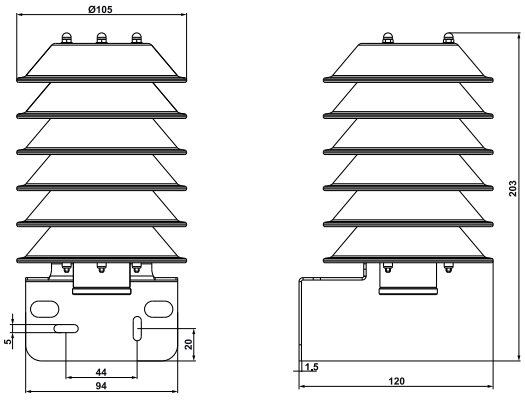
NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Drip water protection	All sensing probes with Ø12 mm (0.47“)	Protection cap Ø85 mm (3.35“), fixing onto the sensing probe by cable gland.	**HA010503**

PROTECTION CAP

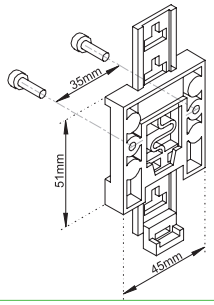
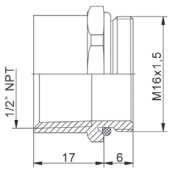
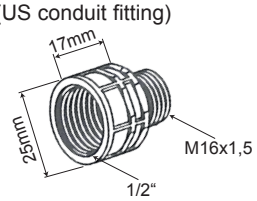
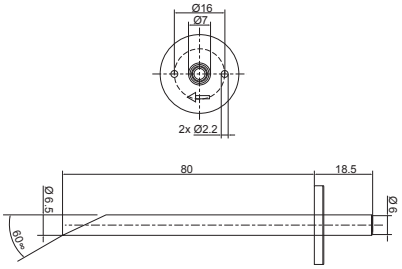
NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Protection cap for Ø12 mm (0.47“) **probe**	All sensing probes with Ø12 mm (0.47“)	Sensing head protection during site cleaning or sterilization. T range: -40…80 °C (-40…176 °F) L: 50.4 mm (1.98“) Ø: 12.5 mm (0.49“)	**HA010783**

RADIATION SHIELD

For outdoor applications the measuring devices shall be equipped with a radiation shield which provides protection from rain, snow and ice. This causes also a natural ventilation which largely prevents overheating of the sensing probe in the sun and thus a distortion of the measured values. All E+E radiation shields are suitable for wall and pole mount.

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Radiation shield for EE210	EE210-Outdoor		HA010501
Radiation shield with fixed clamping ring (M20x1.5) for probes with Ø12 mm (0.47")	EE07 EE08 type E EE060 EE061 EE072 EE33-J (RH probe) with remote sensing probe: EE23 EE310 EE210	• Wall mount  • Pole mount 34 - 68 mm (1.3" - 2.7") 	HA010506
Radiation shield for EE872	EE872	 Wall mount and pole mount (see above)	HA010510

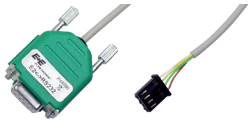
MOUNTING AND CONNECTING AIDS

NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE
Bracket for DIN rail mounting	EE23 EE220 EE310 EE360 Only for plastic enclosure.		HA010203
Conduit adapter, stainless steel	Devices with cable gland M16x1.5	Adapter M16x1.5 to ½“ NPT (US conduit fitting) 	HA011101
Conduit adapter, plastic	Devices with cable gland M16x1.5	Adapter M16x1.5 to ½“ NPT (US conduit fitting) 	HA011110
Pressure tight feedthrough	EE33-MFTJx EE33-MFTKx	For probes with Ø12 mm (0.47“) and Ø6 mm (0.24“) Probe assembly up to 20 bar (300 psi)	**HA011102:** ½“ ISO, probe: Ø12 mm (0.47“) **HA011103:** ½“ NPT, probe: Ø12 mm (0.47“) **HA011104:** ½“ ISO, probe: Ø6 mm (0.24“) **HA011105:** ½“ NPT, probe: Ø6 mm (0.24“)
Pressure connection set	EE600 EE610	2 m (78.7“) PVC hose with two ABS pressure connection nipples 	HA011304

REFERENCE PROBES

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Reference probe	EE220	EE07 probes with fix output values for checking the EE220 basic unit (test report included). probe 1: 90 % RH / 5 °C (41 °F) probe 2: 10 % RH / 45 °C (113 °F)	HA010403

INTERFACE CABLES AND CONVERTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
RS232 to USB	E+E devices with RS232 interface	High speed converter from RS232 DB9 (male) to USB Microsoft WHQL approved	HA020110
E2 to RS232 for EE07	EE07	E2 to RS232 converter, incl. software for test and data Connector A: M12 Connector B: DB9 (female) Cable length: 2 m (6.6 ft)	HA011001
E2 to RS232 for EE03 	EE03	E2 to RS232, incl. software for test and data recording Connector A: 4 pole wire to board connector Connector B: DB9 (female) Cable length: 2 m (6.6 ft)	HA011002
E2 Test and configuration adapter	EE894 with E2 interface	Connecting CO_2 modules with E2 interface to a PC for test and configuration, incl. software and supply adapter. Connector A: Test board with power supply Connector B: DB9 (female)	HA011010
E2 to RS232 for EE08	EE08	E2 to RS232, incl. software for configuration, adjustement or test Connector A: screw terminal or M12 via connection cable Connector B: DB9 (female) Cable length: 2 m (6.6 ft)	HA011005
RS232 interface cable with free ends	EE33	RS232 interface cable for connection to screw terminals Connector A: DB9 (female) Connector B: flying leads Cable length: 2 m (6.6ft)	HA010301
RS232 interface cable	EE33 EE371 EE381	RS232 interface cable Connector A: DB9 (female) Connector B: 6 pol wire to board connector Cable length: 2 m (6.6 ft)	HA010304
RS232 interface	EE33	RS232 interface cable with connector option C06 Connector A: DB9 (female) Connector B: M12 Cable length: 2 m (6.6 ft)	HA010311

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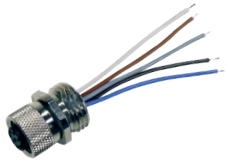
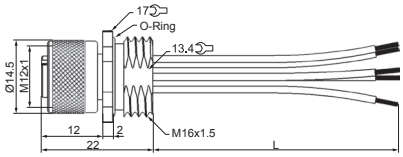
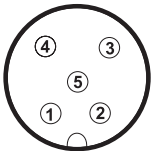
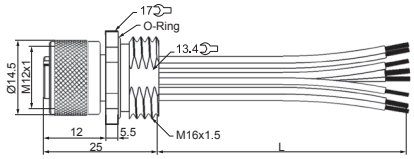
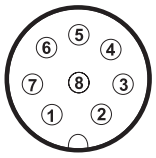
INTERFACE CABLES AND CONVERTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Modbus configuration adapter	EE354 EE355 EE364	For test and configuration with a PC, incl. supply adapter. Connector A: USB Connector B: M12	HA011013
	EE072 EE074 EE671 EE872		HA011018
USB configuration adapter	EE10 digital EE160 digital EE210 EE210-Outdoor EE211 EE4x1 digital EE600 digital EE610 digital EE650 EE660 EE800 EE820 EE850	For test and configuration with a PC, incl. supply adapter. Connector A: USB Connector B: 10 pole wire to board connector	HA011066
USB adapter cable	EE1900 EE1950	For test and configuration with a PC. Connector A: USB Connector B: 10 pole wire to board connector	HA011017

CONNECTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Flange coupling, 5 pole 	EE07 EE060 type E9 EE072 EE074 EE872	M12x1 flange coupling L = 50 mm (2“) ± 3 mm  **Connection diagram**  front view	HA010705

1	brown
2	white
3	blue
4	black
5	grey

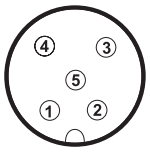
NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Flange coupling, 8 pole	EE08 type D EE364	M12x1 flange coupling L = 2000 mm (2“) ± 5 mm  **Connection diagram**  front view	HA010703

1	white
2	brown
3	green
4	yellow
5	grey
6	pink
7	blue
8	red

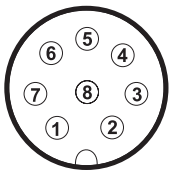
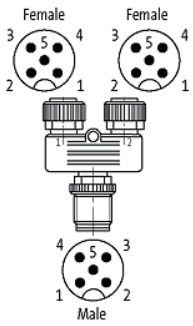
CONNECTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Connector, 4 pole socket	EE07 EE060 type E9 EE072 EE074 EE741 EE820 Humlog 20 E	M12x1 cable connector, 4 pole, IP67 (NEMA 4), for self assembly	HA010707
Connector, 5 pole socket	EE23 - C03 EE33 - C03/C08 EE75 - C12/C13 EE310 - E4, E6, E12, AM3 EE354 EE355 EE360 - E4, E6, E12, AM3 EE671 type T15 EE77x - type Q EE872 EE8915	M12x1 cable connector, 5 pole, IP67 (NEMA 4), for self assembly	HA010708
Connector, 8 pole socket	EE08 type D EE364	M12x1 cable connector, 8 pole, IP67 (NEMA 4), for self assembly	HA010704
Connector, 5 pole plug	EE310 / EE360: E5, E6, E12	M12x1 cable connector, 5 pole, IP67 (NEMA 4), for self assembly	HA010706

CABLES

NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE
Connection cable EE220/ EE244	EE07 with EE220 EE07 with EE244 EE244	5 pole, M12x1 plug-socket, shielded (shield connected to pin 5), PUR	HA010801 (2 m / 6.6 ft) HA010802 (5 m / 16.4 ft) HA010803 (10 m / 32.8 ft)
Connection cable, 5 pole	EE771 EE772 EE776 Humlog 20 E	5 pole, M12x1 plug-socket, shielded, PUR	HA010816 (2 m / 6.6 ft) HA010817 (5 m / 16.4 ft) HA010818 (10 m / 32.8 ft)
Connection cable, 5 pole	EE07 EE060 type E9 EE072 EE074 EE354 EE355 EE671 type T15 EE820 EE872 EE8915	5 pole, M12x1 socket - free ends, shielded, PUR **Connection diagram**  front view 1 brown 2 white 3 blue 4 black 5 grey	HA010819 (1.5 m / 4.9 ft) HA010820 (5 m / 16.4 ft) HA010821 (10 m / 32.8 ft)

CABLES

NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE
Connection cable, 8 pole	EE08 type D EE364	8 pole, M12x1 socket - free ends, shielded, PUR **Connection diagram**  front view 1 white 2 brown 3 green 4 yellow 5 grey 6 pink 7 blue 8 red	**HA010322** (1.5 m / 4.9 ft) **HA010323** (3 m / 9.8 ft) **HA010324** (5 m / 16.4 ft) **HA010325** (10 m / 32.8 ft)
Connection cable Omniport / Oilport / EE100Ex	EE100Ex-T23	M12 connecting cable 4 pole, M12x1 plug-socket unshielded, PUR	**HA010826** (2 m / 6.6 ft)
	Omniport 30 Oilport 30	M12 connecting cable 5 pole, M12x1 plug-socket, unshielded, PUR	**HA010813** (2 m / 6.6 ft) **HA010814** (5 m / 16.4 ft) **HA010815** (10 m / 32.8 ft)
Protection cap	M12 female connector		**HA010781**
Protection cap	M12 male connector		**HA010782**
T-coupler M12-M12	EE072 EE074 EE671 EE820 EE872 Humlog 20	T-coupler 1 male - 2 female for M12 5 pole connection	 **HA030204**