

AVENTICS Series AES Field bus modules



AVENTICS™

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modules**



Series AES

The AVENTICS Series AES fieldbus connection can be integrated into all AVENTICS fieldbus-compatible valve systems or can also be configured as a stand-alone solution. AES connects your AVENTICS valve system to all relevant fieldbus protocols and offers the integration of I/O-modules and enables optimized decentralized wiring of sensors. The integration of the Digital Twin enables users to be IIoT ready and use the AES to solve their interoperability challenges.

- Smallest dimensions
- Protection class IP65
- Special I/O-modules for pneumatic applications
- Optimized wiring
- OPC UA integration allows for easy access to data and analytics without changing or touching the PLC
- The integrated Digital Twin improves your productivity and efficiency

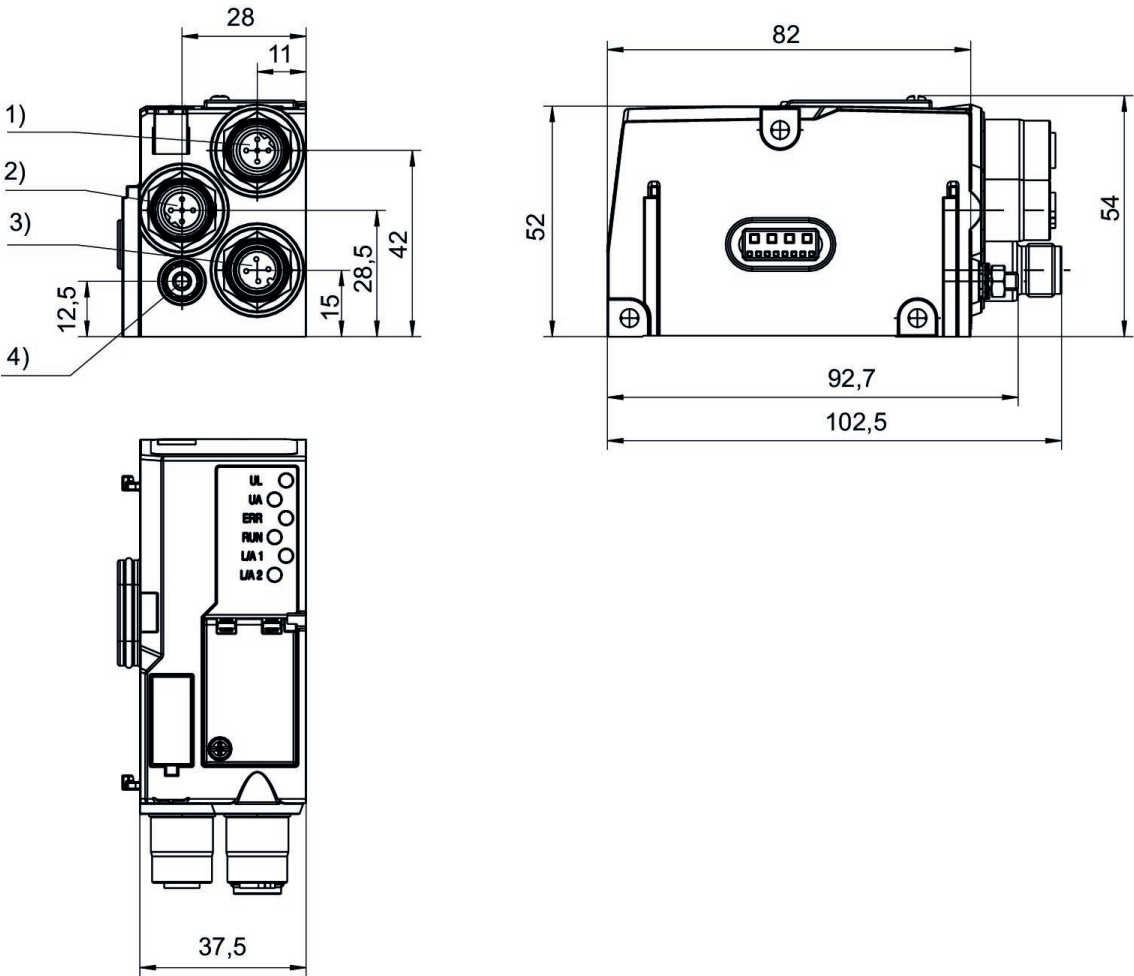


Bus coupler, series AES



Type	Fieldbus protocol	Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Number of I/O connections	Part No.
	PROFIBUS DP	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018218
	CANopen	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018220
	DeviceNet	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018221
	EtherNet/IP	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018222
	PROFINET IO	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018223
Generation 2, Notice: supports MRP and IRT (RT_CLASS 3)	PROFINET IO	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412088223
	EtherCAT	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018225
Generation 2	EtherCAT	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412088225
	POWERLINK	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412018226

Dimensions



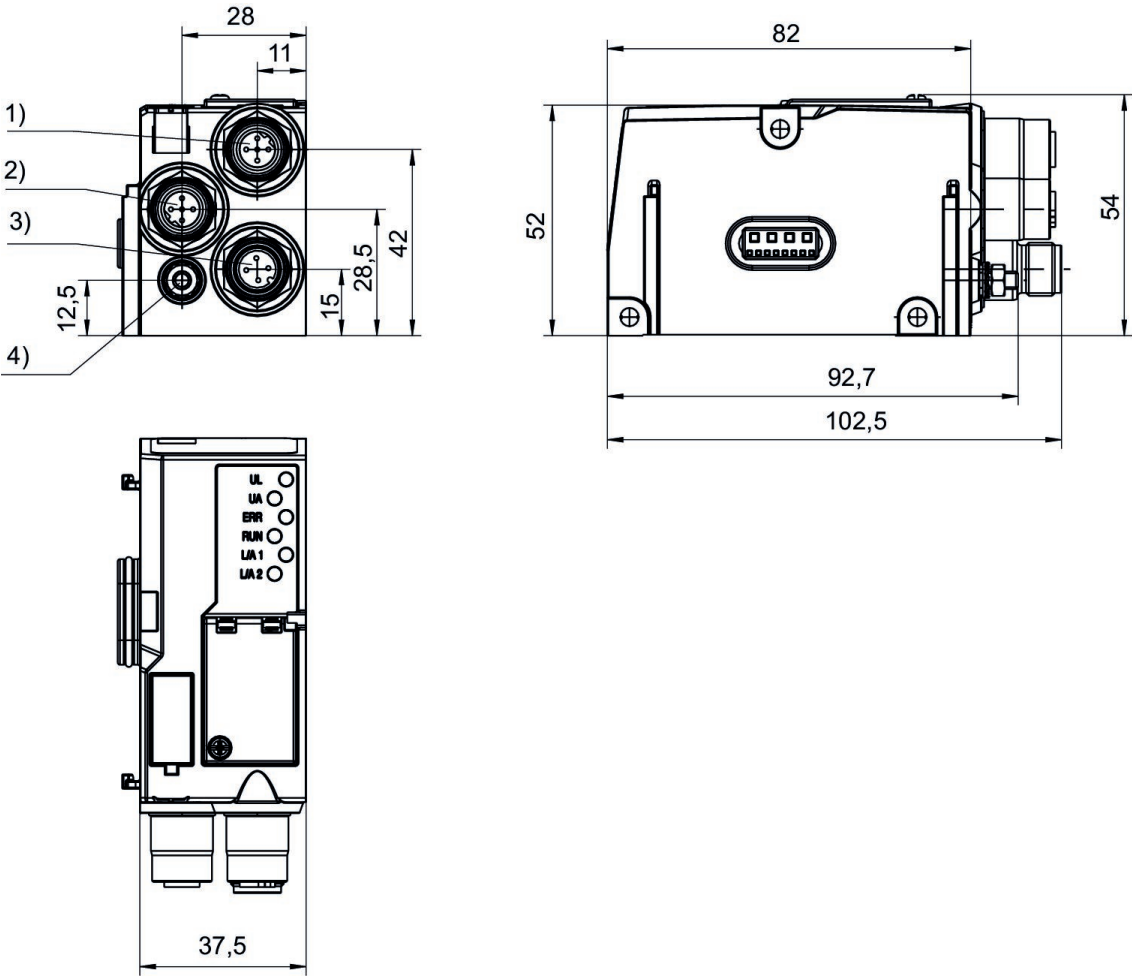
1) Fieldbus connection 2) Fieldbus connection 3) Power supply 4) Functional ground

Bus coupler, series AES



Type	Fieldbus protocol	Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Number of I/O connections	Part No.
Generation 2, Notice: supports DLR	EtherNet/IP	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412088222

Dimensions



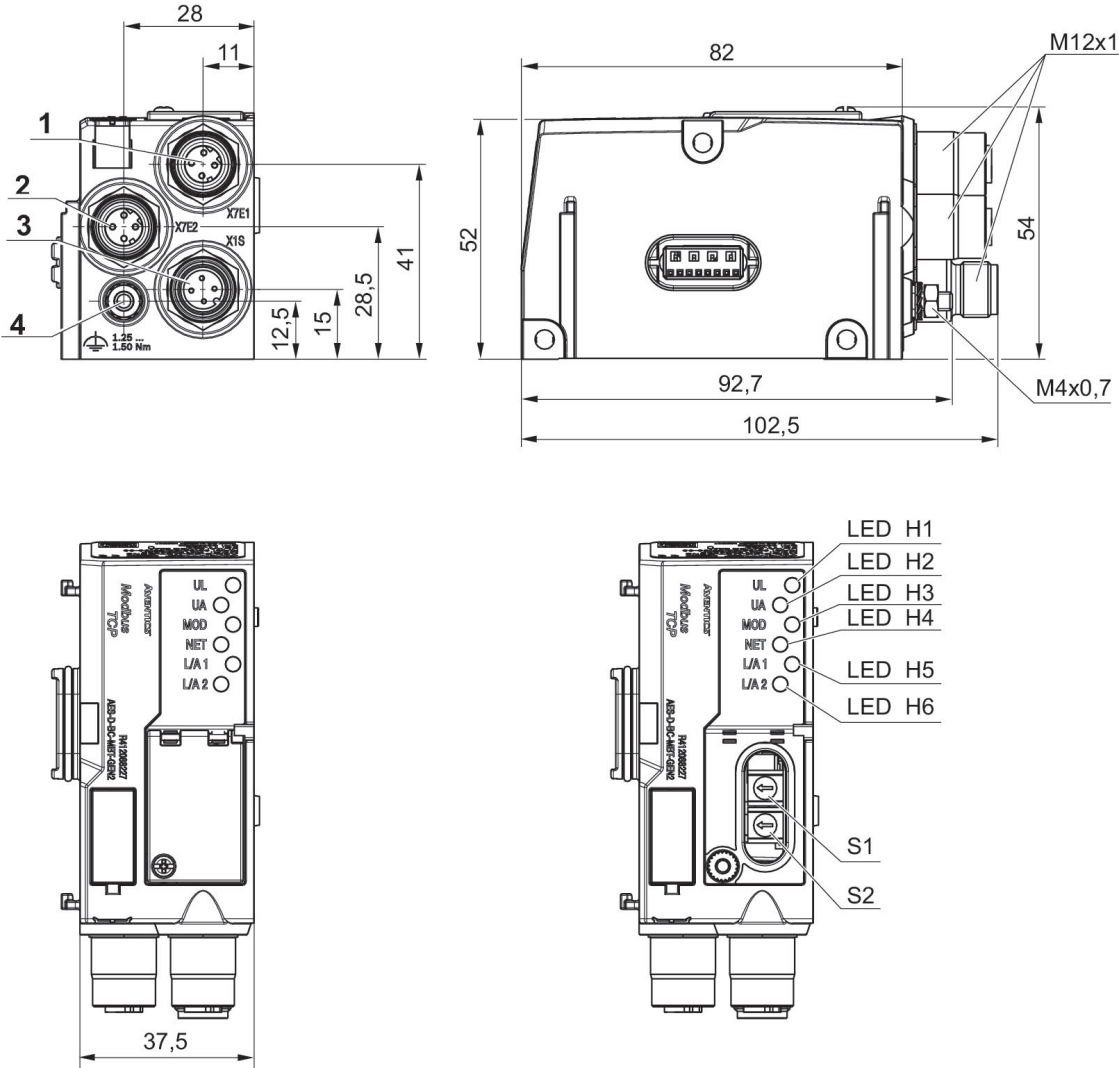
1) Fieldbus connection 2) Fieldbus connection 3) Power supply 4) Functional ground

Bus coupler, series AES



Type	Fieldbus protocol	Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Number of I/O connections	Part No.
Generation 2	MODBUS TCP	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412088227

Dimensions



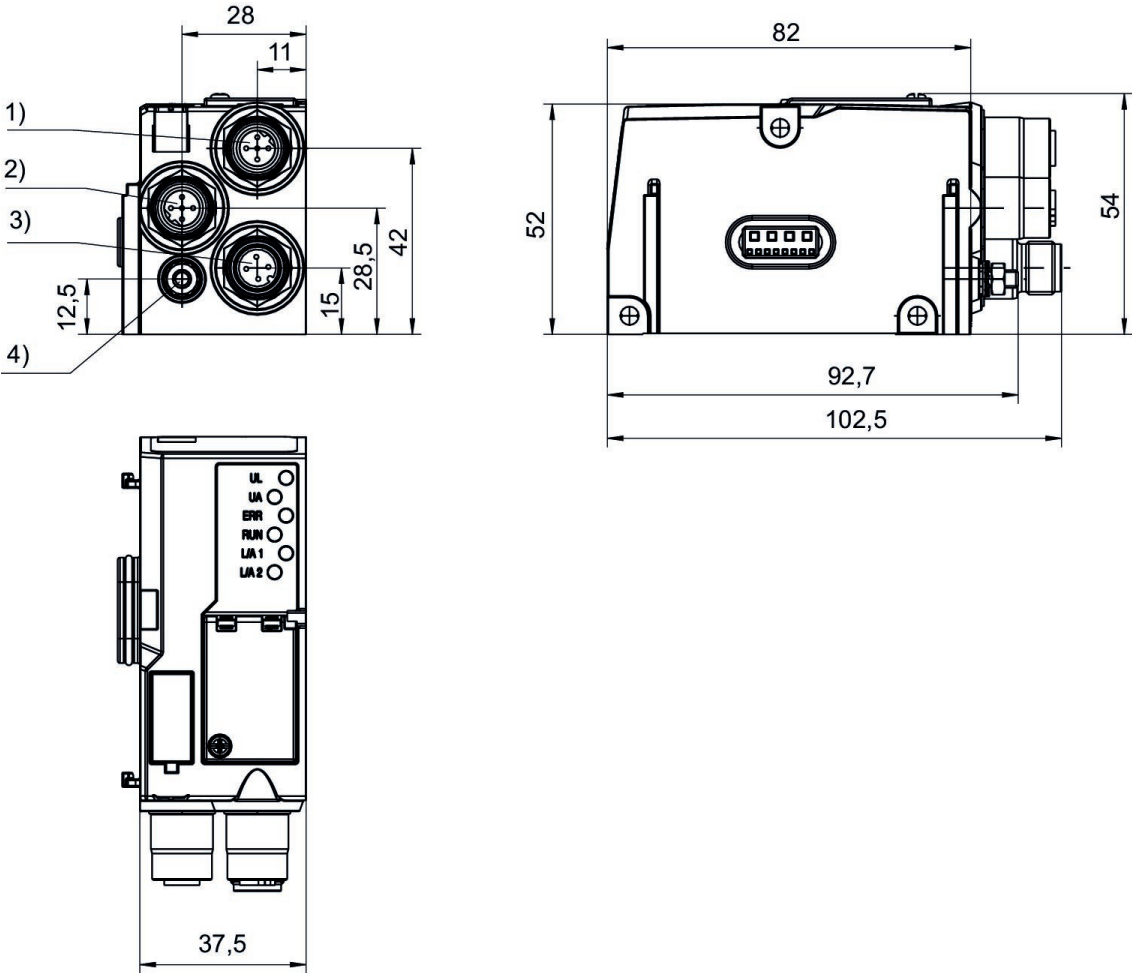
1) Fieldbus connection 2) Fieldbus connection 3) Power supply 4) Functional ground

Bus coupler, series AES



Type	Fieldbus protocol	Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Number of I/O connections	Part No.
Generation 2	POWERLINK	Plug	M12x1	4-pin	connection with I/O	512 inputs / 512 outputs	R412088226

Dimensions



1) Fieldbus connection 2) Fieldbus connection 3) Power supply 4) Functional ground

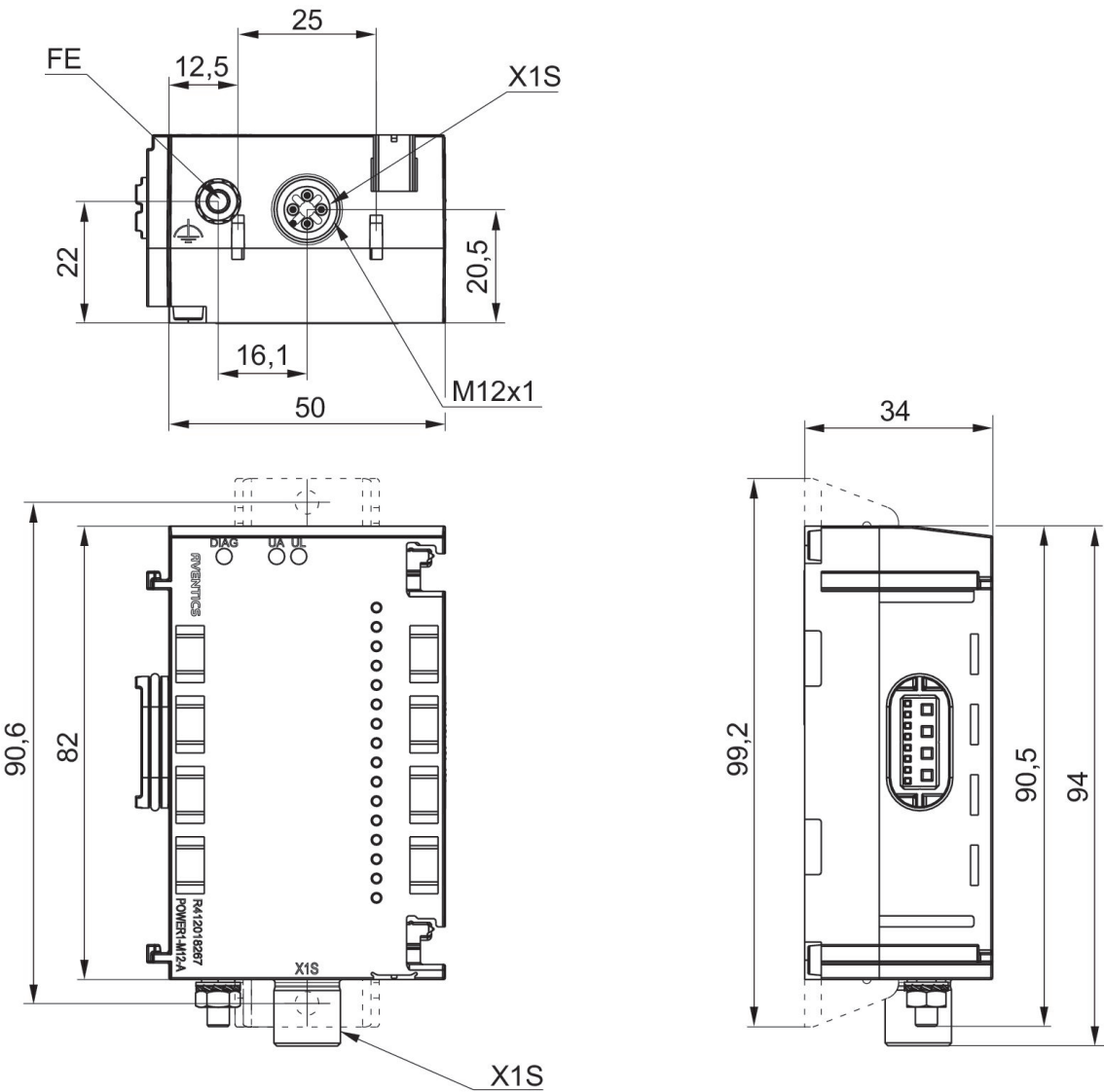
Power module Series AES

Internal



Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Part No.
Plug	M12x1	4-pin	connection with I/O	R412018267
Plug	M12x1	4-pin	connection with I/O	R412018268

Dimensions



Port 1, X1S

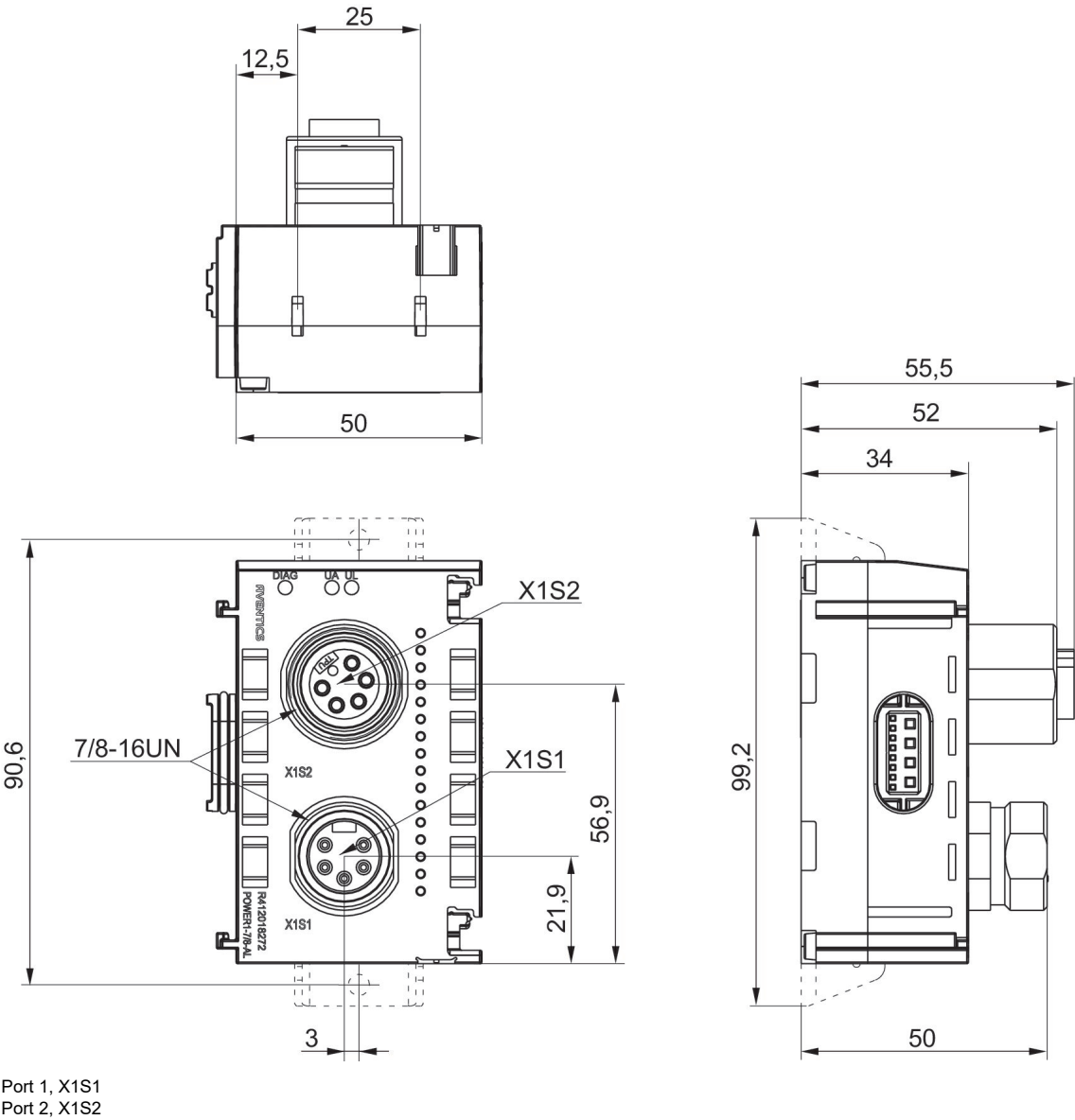
Power module Series AES

Internal



Power plug IN type	Power plug IN size	Power plug IN number of pole	Power plug OUT type	Power plug OUT size	Power plug OUT number of pole	E/A capable	Part No.
Plug	7/8"-16UNF	5-pin	Socket	7/8"-16UNF	5-pin	connection with I/O	R412018272

Dimensions

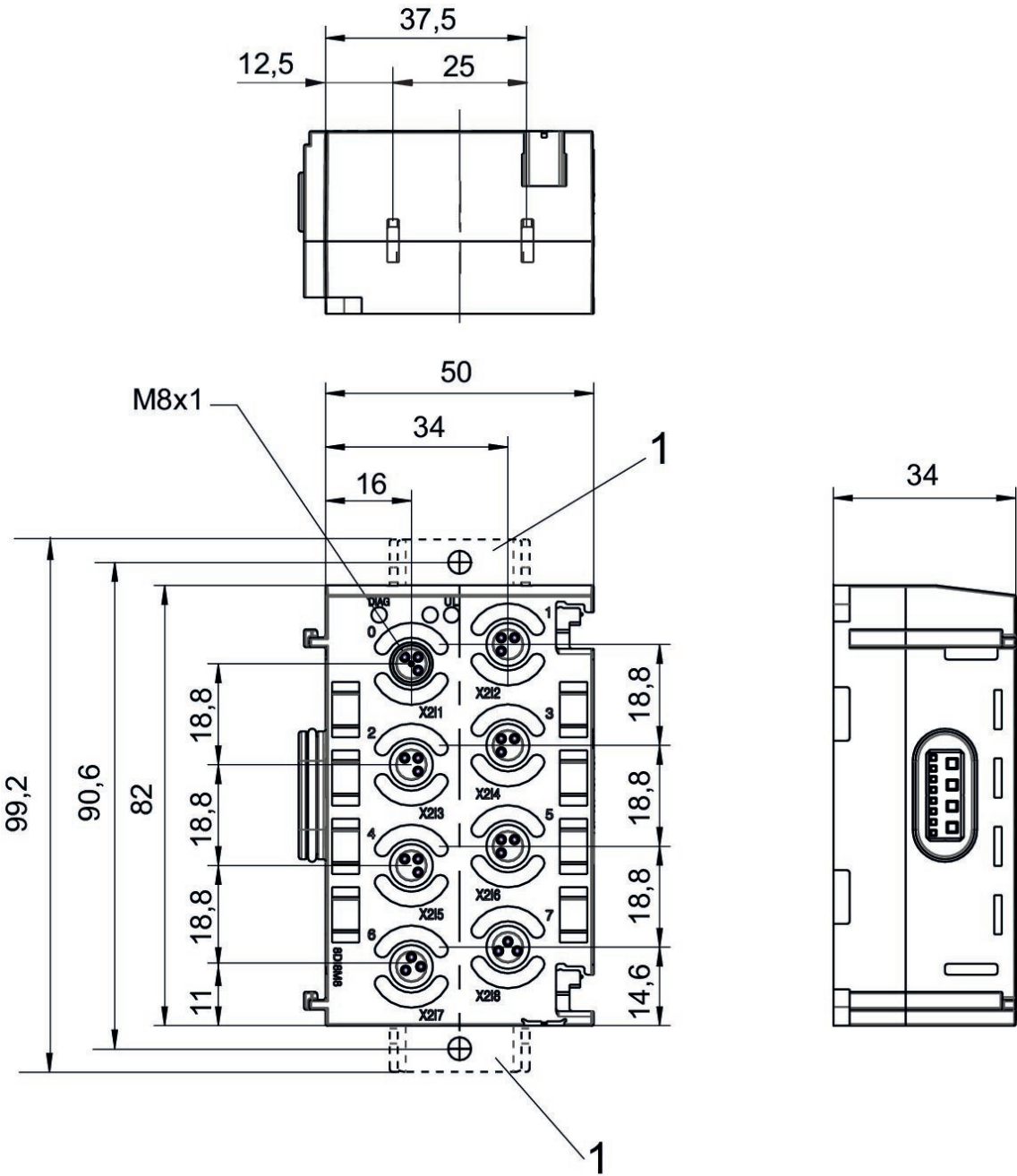


I/O modules, series AES



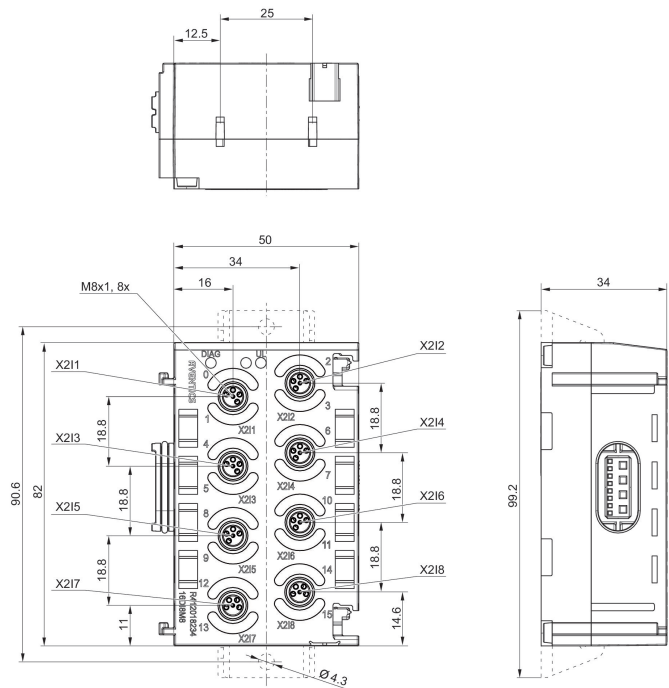
Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
8DIDO8M8	Internal	connection with I/O	8 inputs / 8 outputs	R412018269
8DI8M8	Internal	connection with I/O	8 inputs	R412018233
8DO8M8	Internal	connection with I/O	8 outputs	R412018248
16DI8M8	Internal	connection with I/O	16 inputs	R412018234

Dimensions



1) Retaining bracket (optional)
Pin assignment M8x1 (3-pin)

R412018234



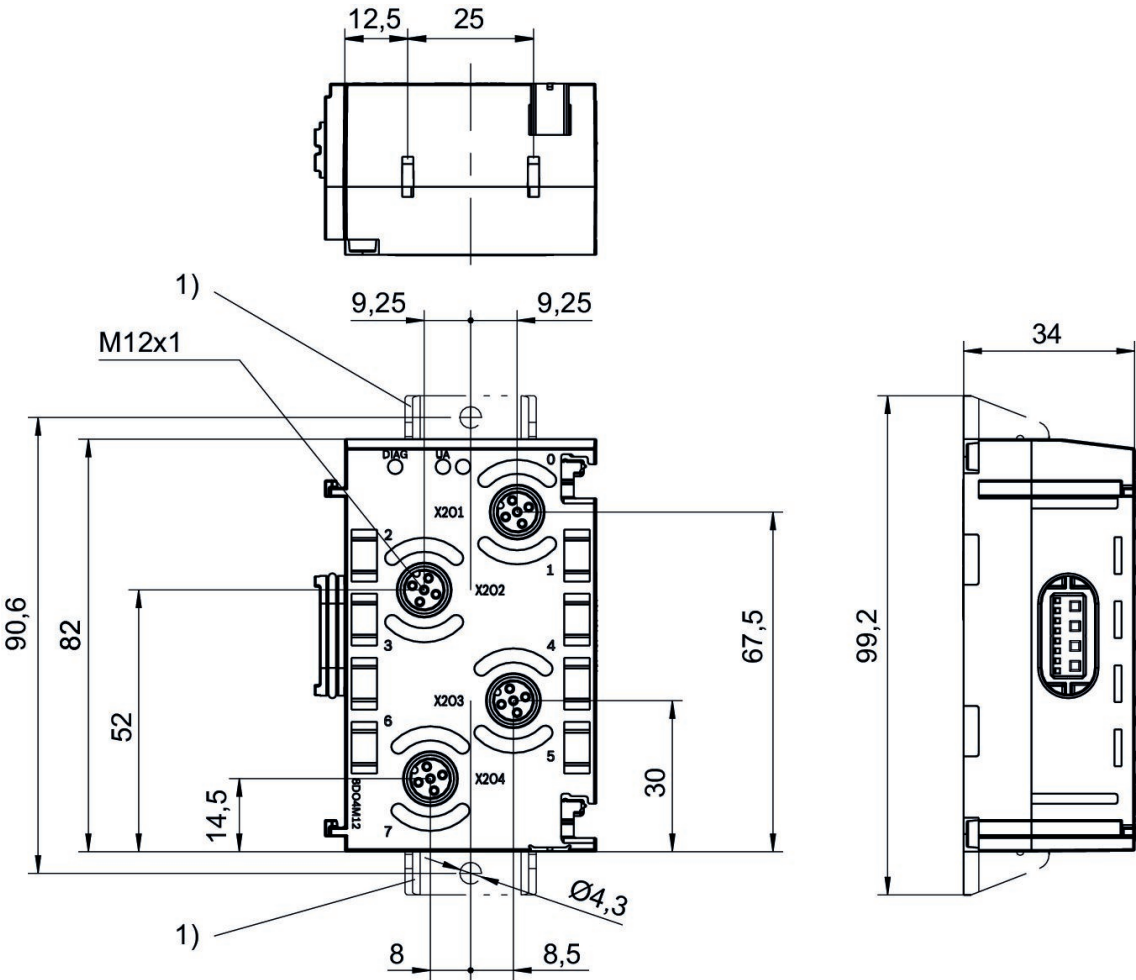
1) Retaining bracket (optional)
Pin assignment M8x1 (4-pin)

I/O modules, series AES



Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
8DI4M12	Internal	connection with I/O	8 inputs	R412018235
8DO4M12	Internal	connection with I/O	8 outputs	R412018250
8DIDO4M12	Internal	connection with I/O	8 inputs / 8 outputs	R412018270

Dimensions



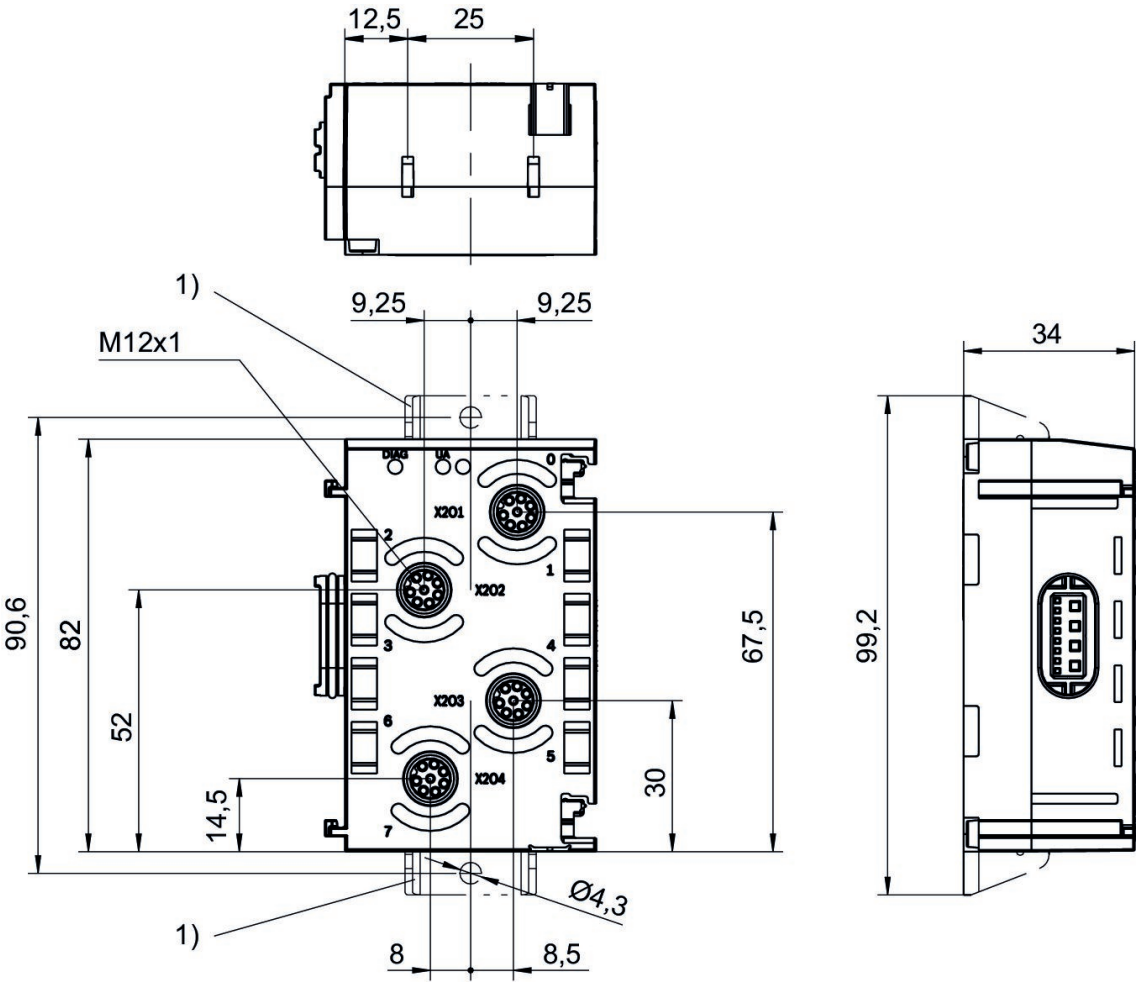
1) Retaining bracket (optional)

I/O modules, series AES



Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
16DI4M12	Internal	connection with I/O	16 inputs	R412018243
16DO4M12	Internal	connection with I/O	16 outputs	R412018263

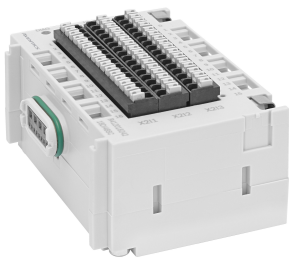
Dimensions



1) Retaining bracket (optional)

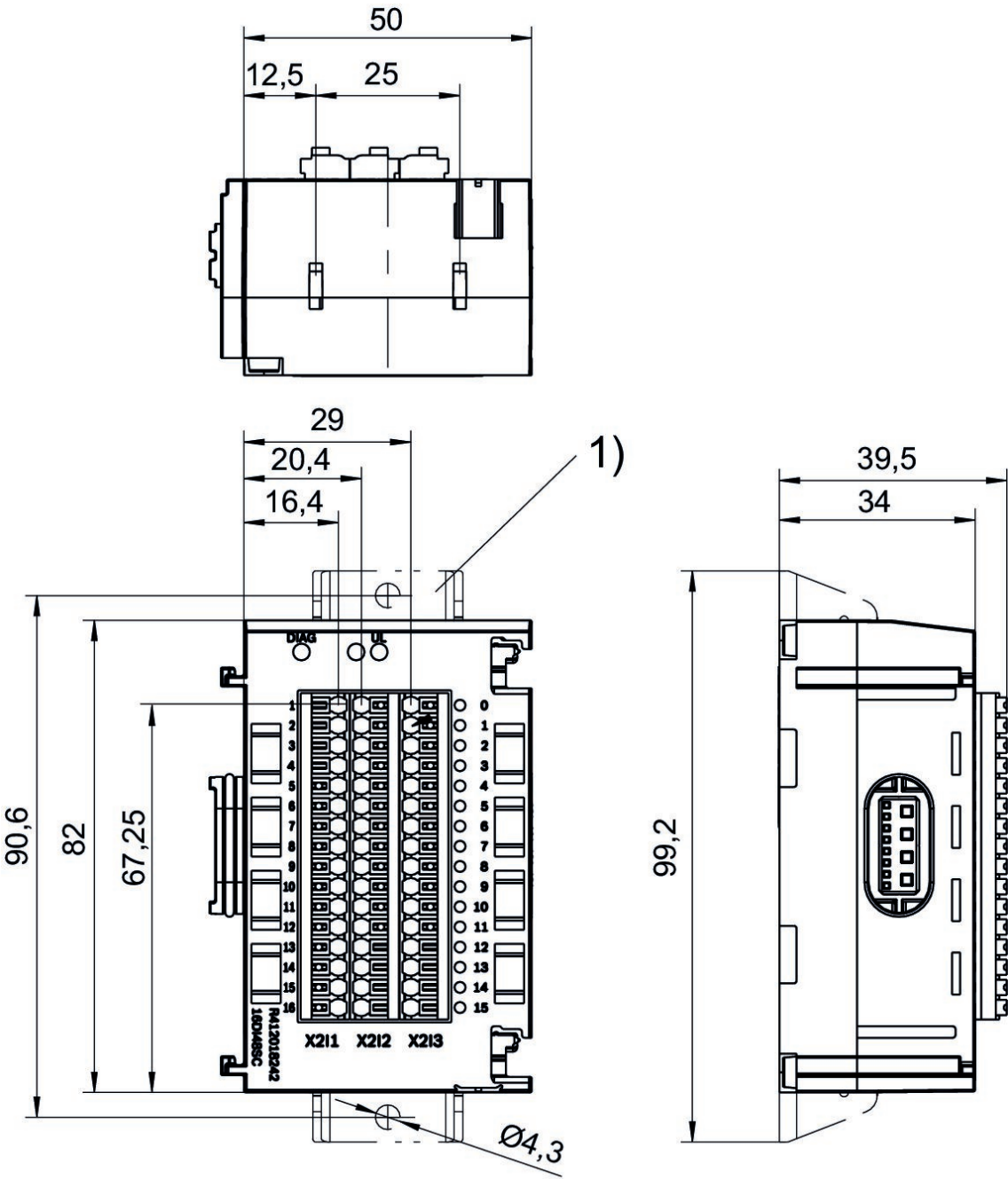
I/O modules, series AES

Internal



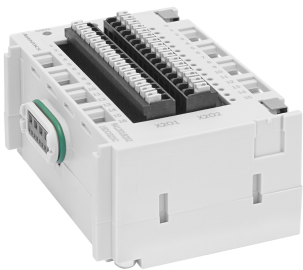
Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
16DI48SC	Internal	connection with I/O	16 inputs	R412018242

Dimensions



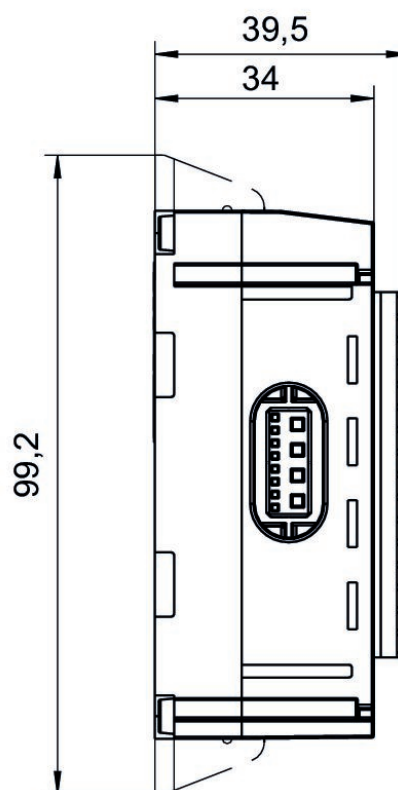
1) Retaining bracket (optional)

I/O modules, series AES



Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
16DO32SC	Internal	connection with I/O	16 outputs	R412018252

Technical drawing of a mechanical part, likely a bracket or support. The drawing shows a side view with a total width of 50. The width is divided into two sections: 12,5 on the left and 25 on the right. The part features a central vertical slot and two small rectangular protrusions on the top surface. The drawing is a black and white line drawing with dimension lines and arrows indicating measurements.



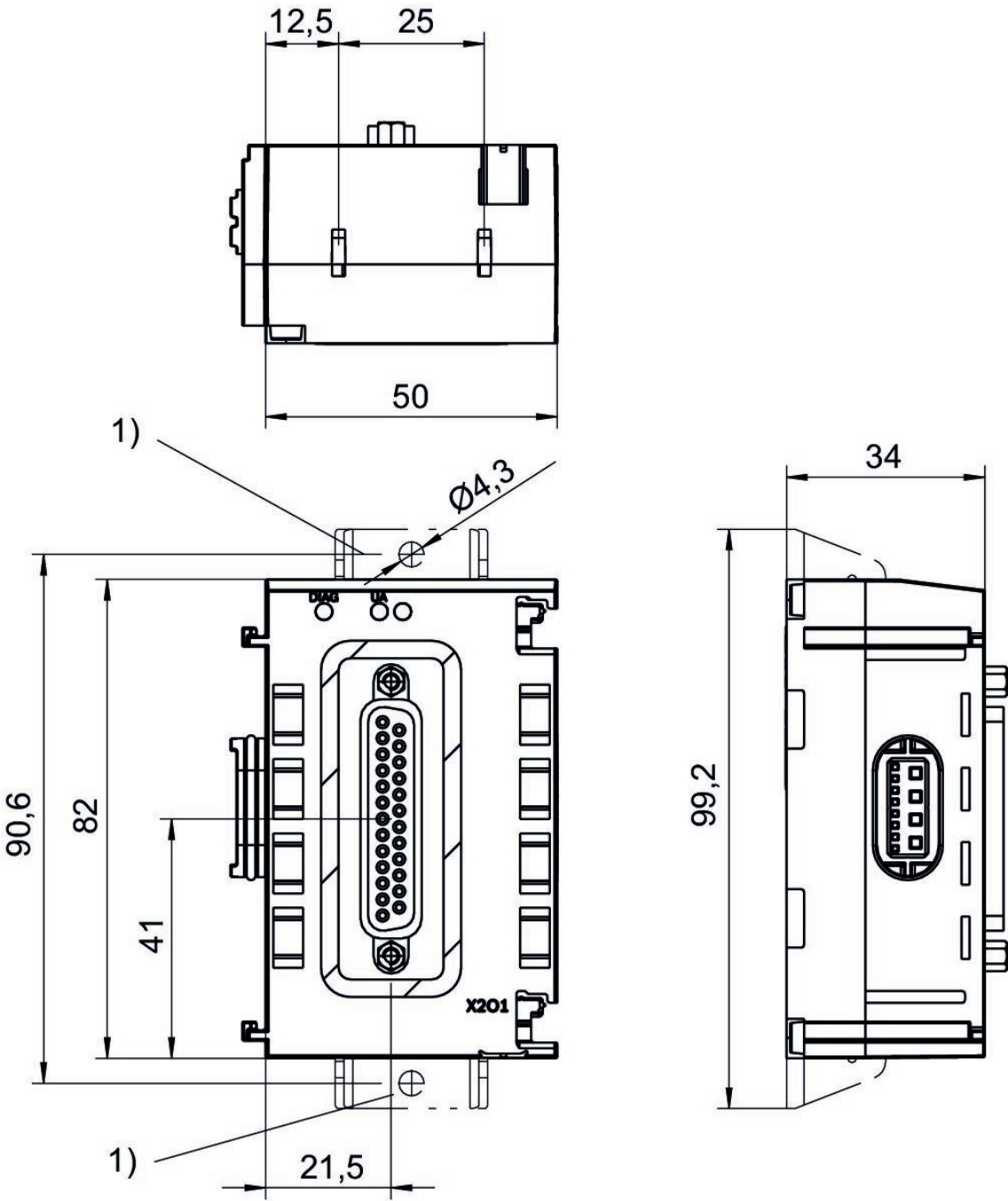
AVENTICS

I/O modules, series AES



Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
24DO1DSUB25	Internal	connection with I/O	24 outputs	R412018254

Dimensions



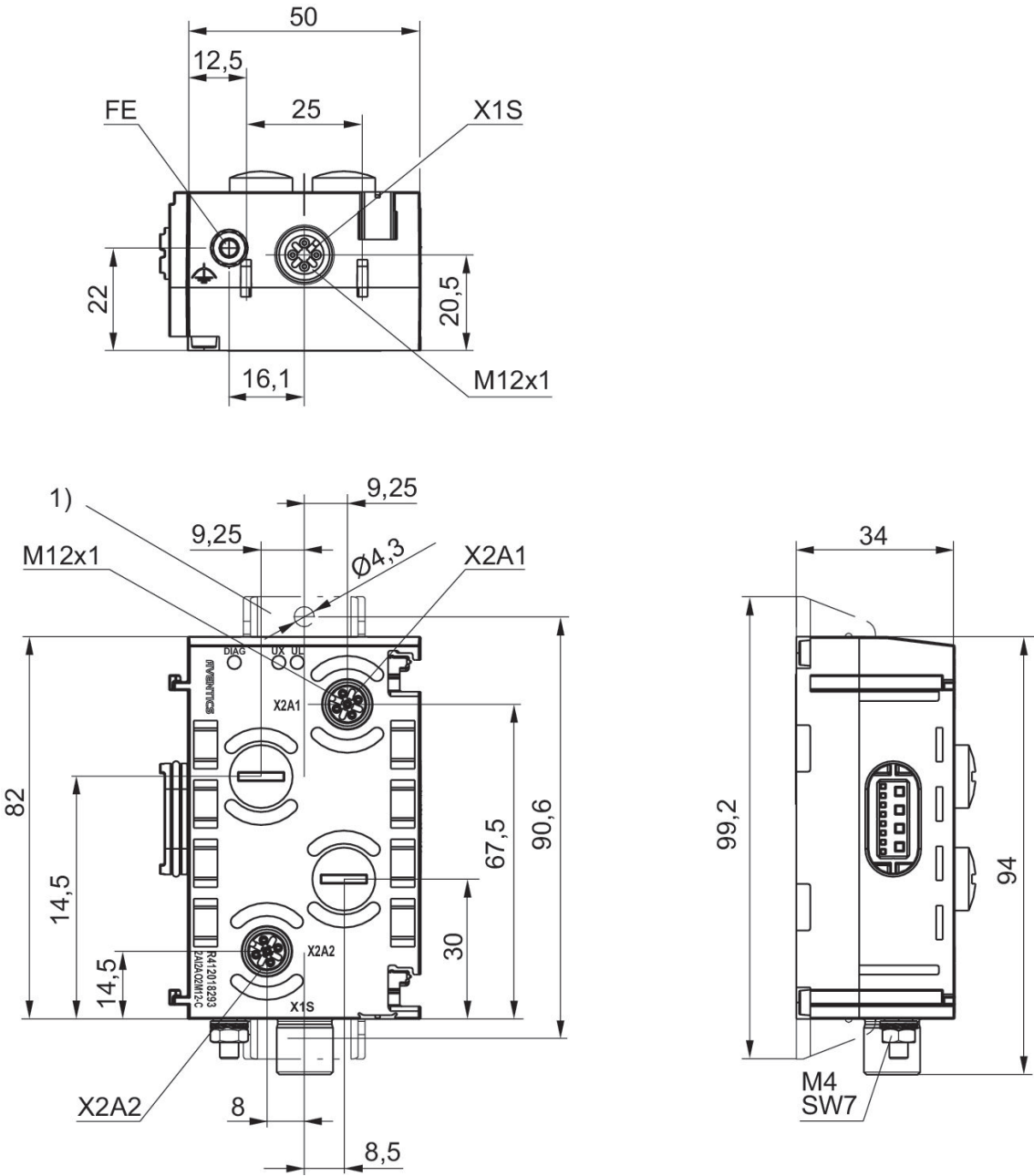
1) Retaining bracket (optional)

I/O modules, series AES



Type	Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Number of I/ O connections	Part No.
2AI2AO2M12-C	Plug	M12x1	4-pin	connection with I/O	2 inputs / 2 outputs	R412018293

Dimensions



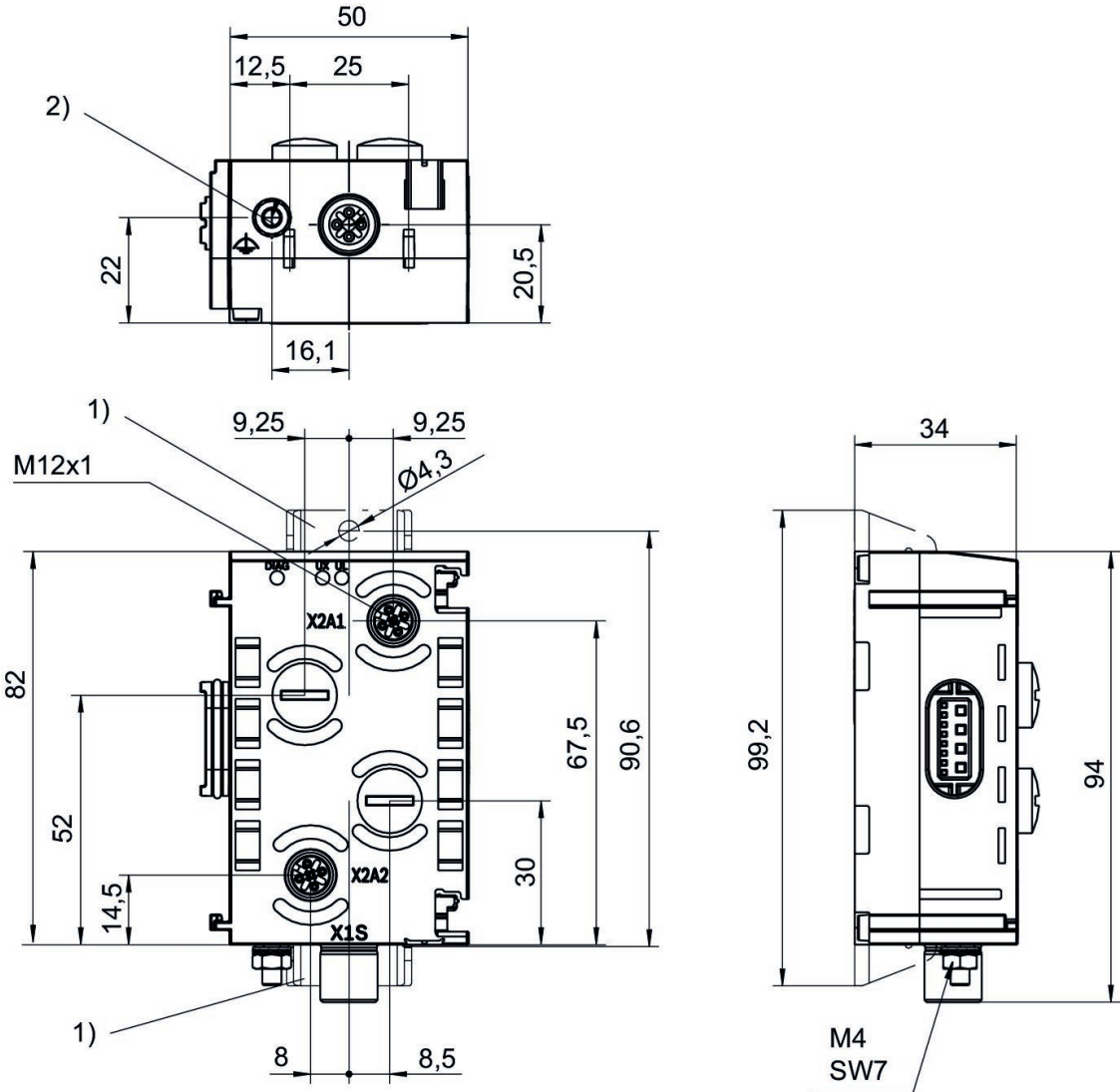
1) Retaining bracket (optional)

I/O modules, series AES



Type	Power plug IN type	Power plug IN size	Power plug IN number of pole	E/A capable	Number of I/O connections	Part No.
2AI2AO2M12-AE	Plug	M12x1	4-pin	connection with I/O	2 inputs / 2 outputs	R412018287

Dimensions



1) Retaining bracket (optional)
2) Ground

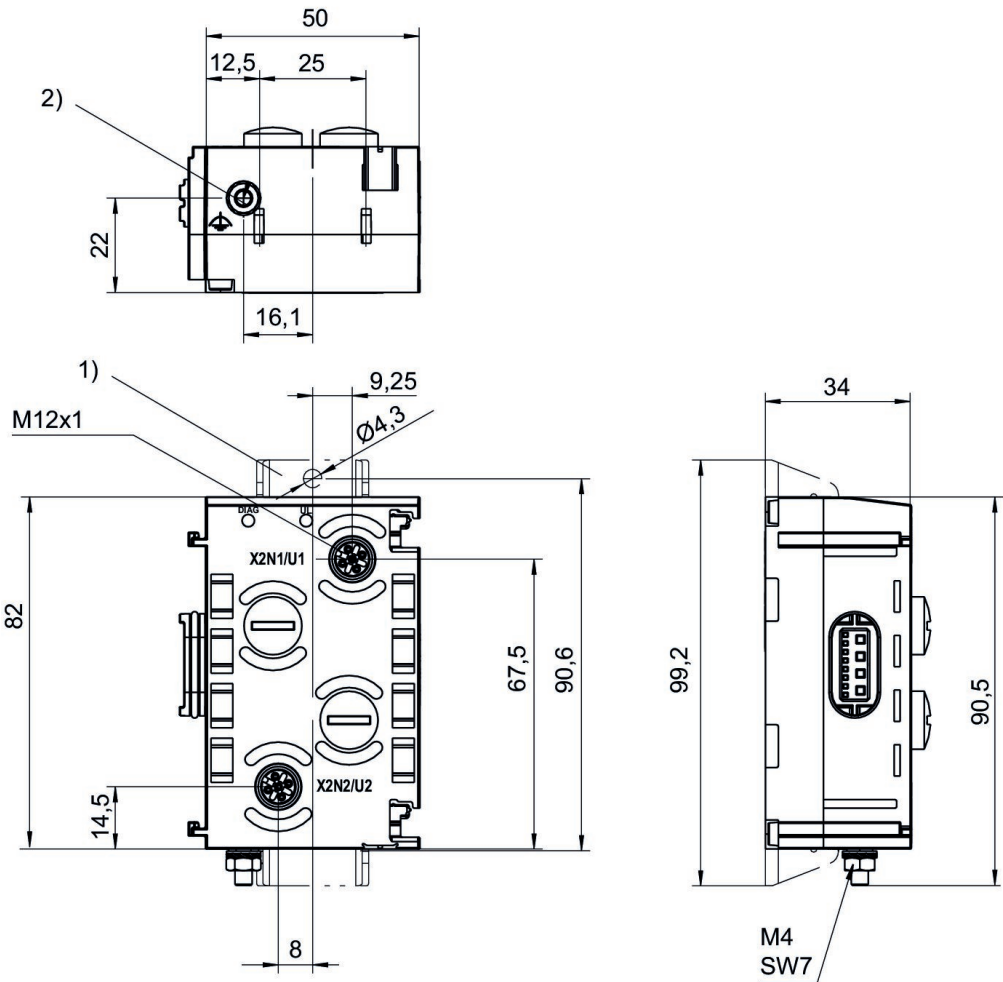
I/O modules, series AES

Internal



Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
2AI2M12-E	Internal	connection with I/O	2 inputs	R412018277
4AI4M12-E	Internal	connection with I/O	4 inputs	R412018278
2AO2M12-E	Internal	connection with I/O	2 outputs	R412018281

Dimensions



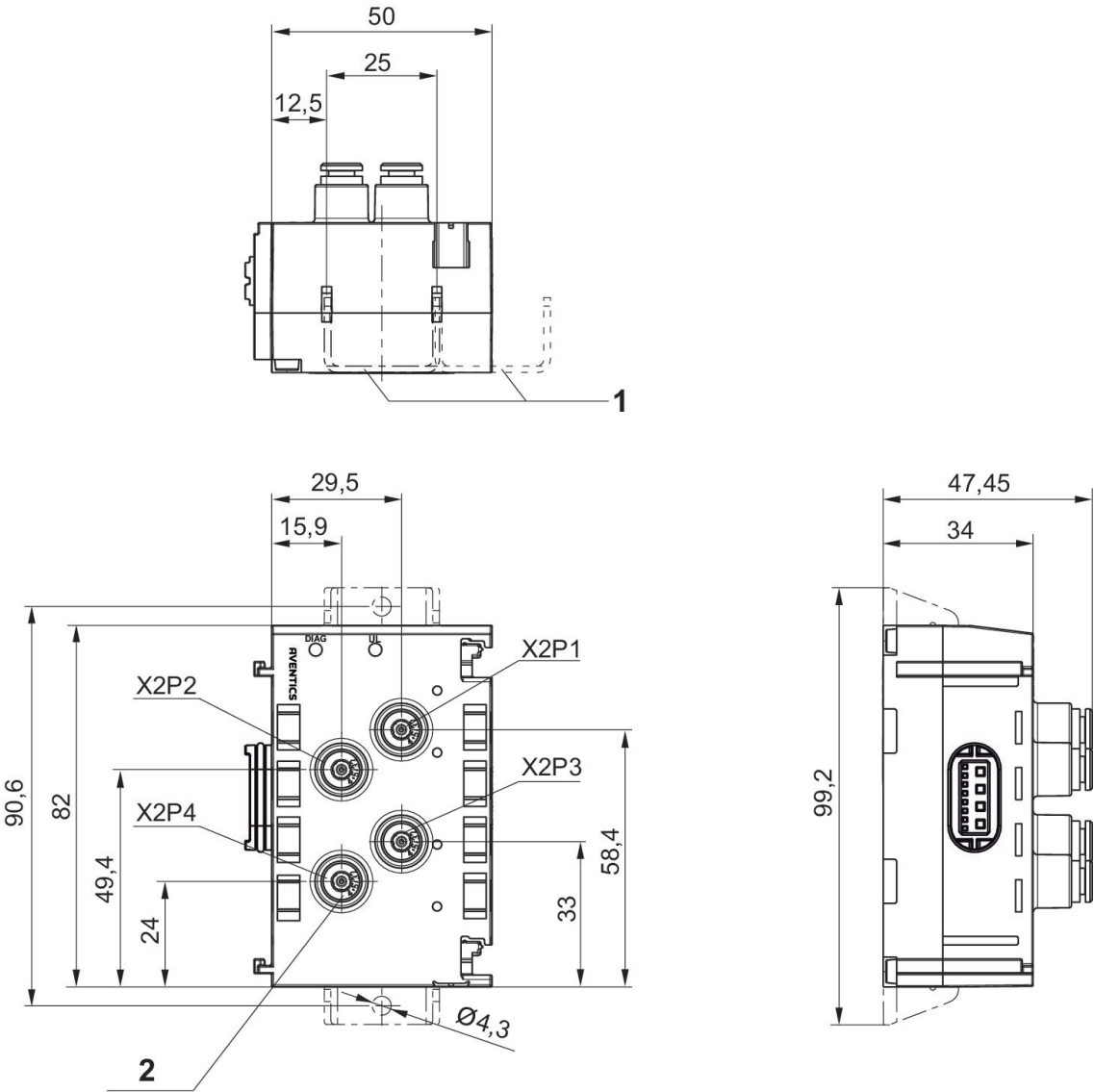
- 1) Retaining bracket (optional)
- 2) Ground

I/O modules, series AES



Type	Power plug IN type	E/A capable	Number of I/O connections	Part No.
4P4D4	Internal	connection with I/O	4 inputs	R412018291
4VP4D4	Internal	connection with I/O	4 inputs	R412018292

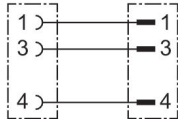
Dimensions



- 1) Retaining bracket (optional)
- 2) Blanking plug included in scope of delivery

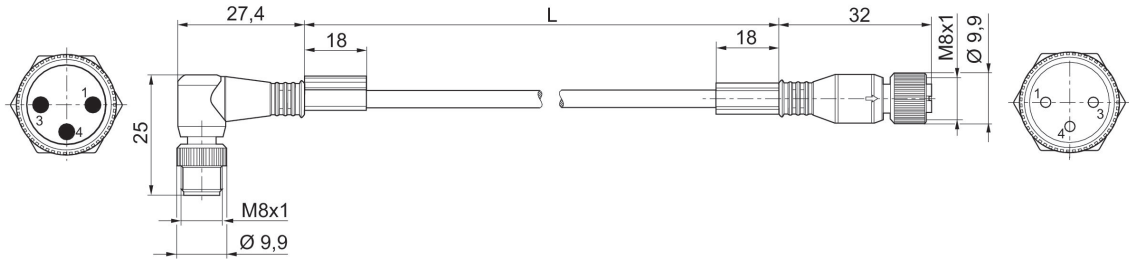
Round plug connector, Series CON-RD

Plug
Socket
M8x1
M8x1
3-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
48 V AC/DC	Socket	M8x1	Plug	M8x1	1	R412021681
48 V AC/DC	Socket	M8x1	Plug	M8x1	2	R412021682
48 V AC/DC	Socket	M8x1	Plug	M8x1	5	R412021683

Dimensions



L = length

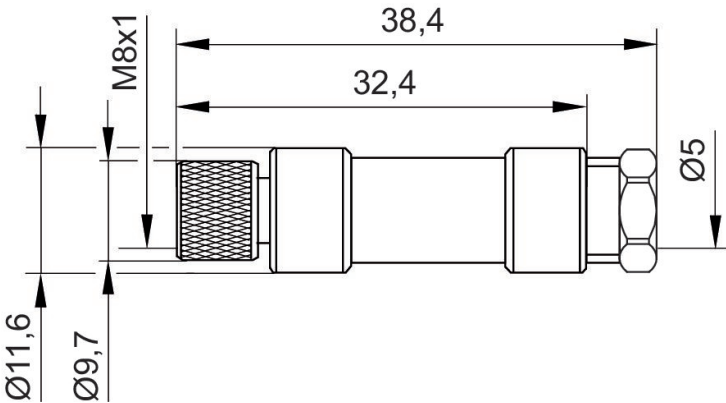
Round plug connector, Series CON-RD

Plug
M8x1
3-pin



Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	3-pin	3.5	5	R412021676

Dimensions



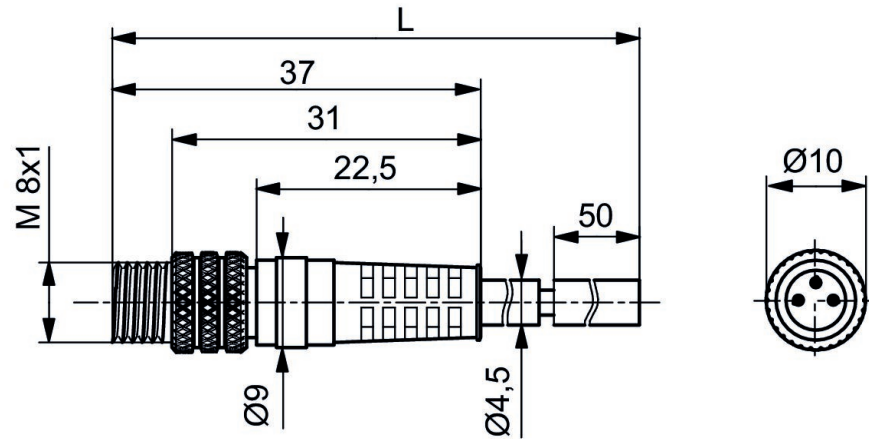
Round plug connector, Series CON-RD

Plug
M8x1
3-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Cable length [m]	Part No.
30 V AC/DC	Plug	M8x1	open cable ends	3	8946203602
30 V AC/DC	Plug	M8x1	open cable ends	5	8946203612
30 V AC/DC	Plug	M8x1	open cable ends	10	8946203622

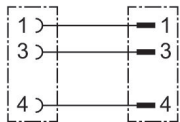
Dimensions



L = length

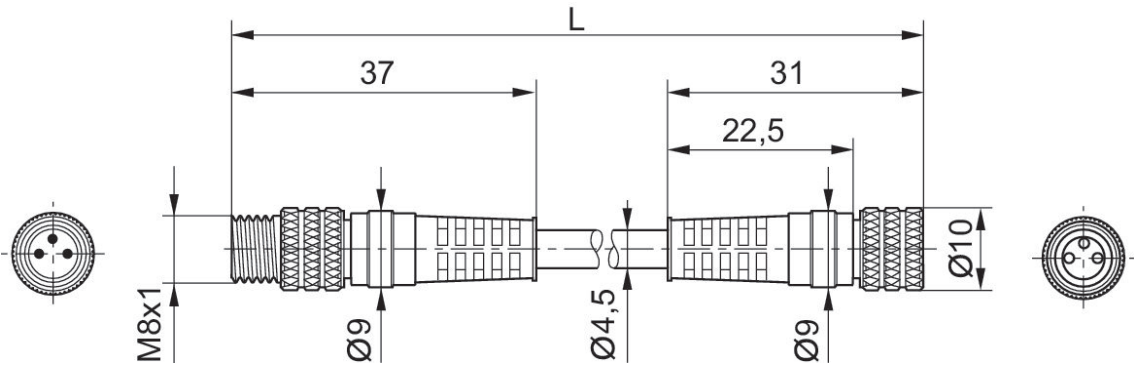
Round plug connector, Series CON-RD

Plug
M8x1
3-pin



Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Cable length [m]	Part No.
Socket	M8x1	Plug	1	8946203702
Socket	M8x1	Plug	2	8946203712
Socket	M8x1	Plug	5	8946203722

Dimensions



L = length

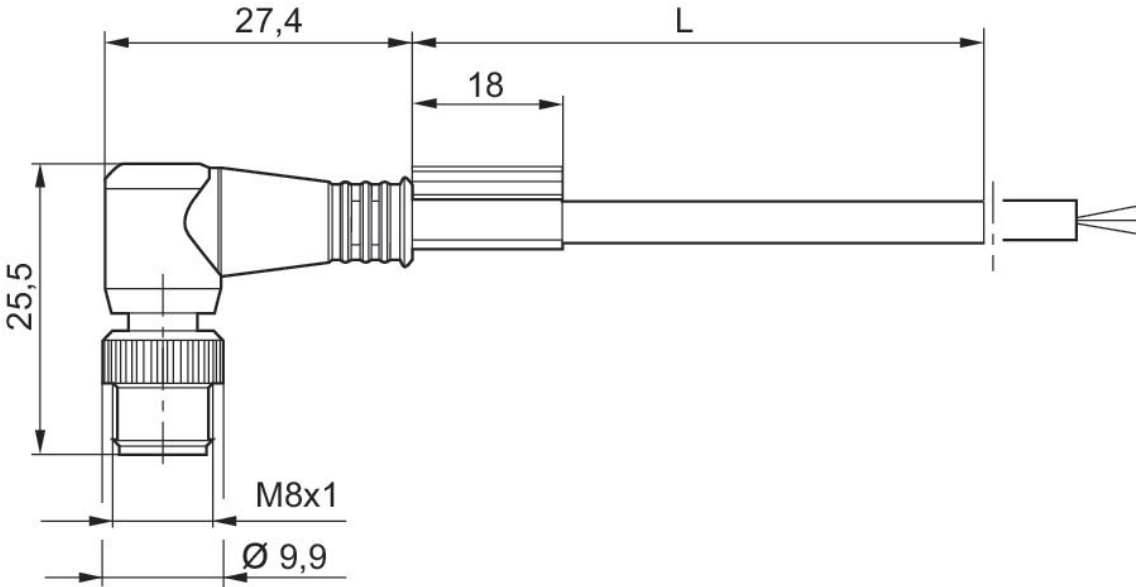
Round plug connector, Series CON-RD

Plug
M8x1
3-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Cable length [m]	Part No.
48 V AC/DC	Plug	M8x1	open cable ends	2	R412021678
48 V AC/DC	Plug	M8x1	open cable ends	5	R412021679
48 V AC/DC	Plug	M8x1	open cable ends	10	R412021680

Dimensions



L = length

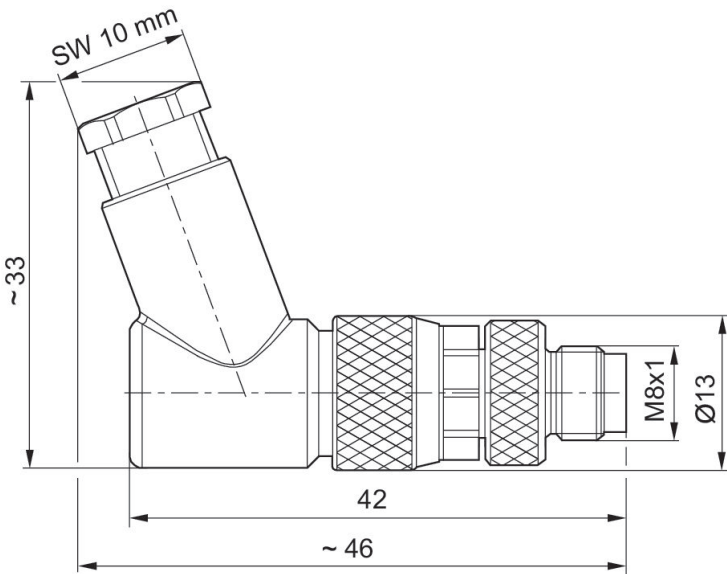
Round plug connector, Series CON-RD

Plug
M8x1
3-pin



Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	3-pin	3.5	6	R412021677

Dimensions



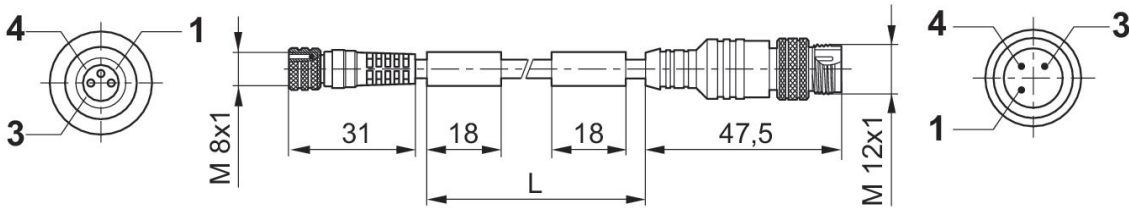
Round plug connector, Series CON-RD

Plug
Socket
M12x1
M8x1
3-pin



Electrical con- nection 1, type	Electrical connec- tion 1, thread size	Electrical con- nection 2, type	Electrical connec- tion 2, thread size	Cable length [m]	Part No.
Socket	M8x1	Plug	M12x1	2	8946203462

Dimensions



L = length

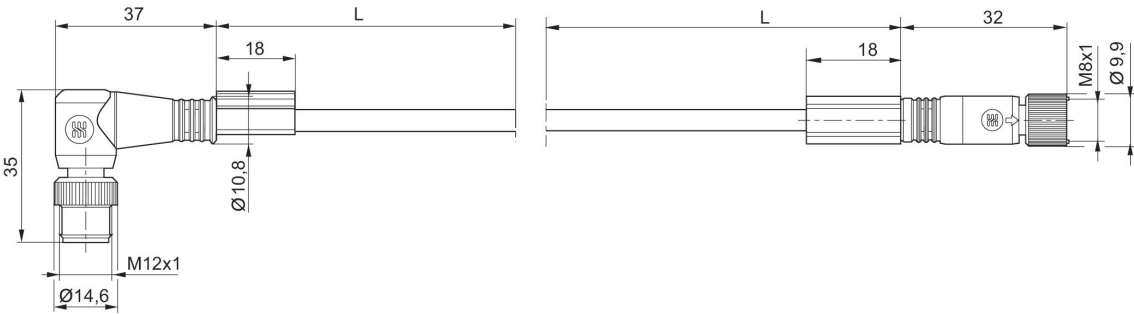
Round plug connector, Series CON-RD

Plug
Socket
M12x1
M8x1
3-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
48 V AC/DC	Socket	M8x1	Plug	M12x1	2	R412021696
48 V AC/DC	Socket	M8x1	Plug	M12x1	5	R412021697

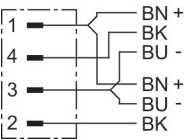
Dimensions



L = length

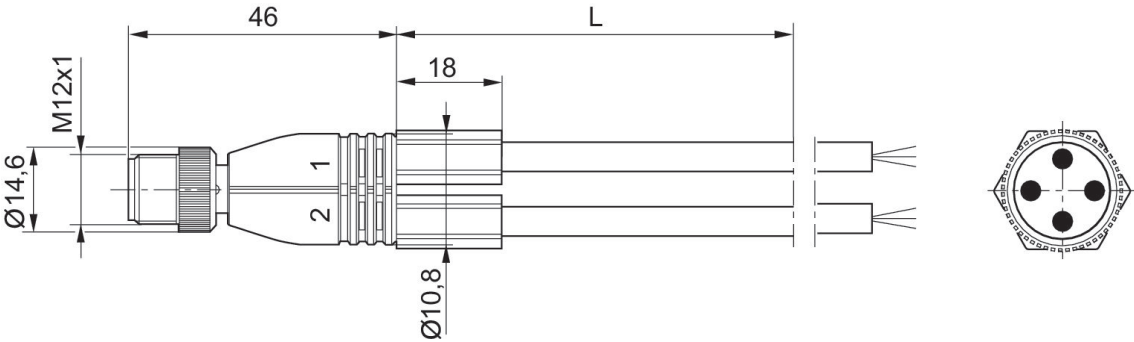
Y-Plug connector, series CON-RD

Plug
2 x open cable ends
M12x1
4-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Cable length [m]	Part No.
48 V AC/DC	Plug	M12x1	2 x open cable ends	2	R412021688

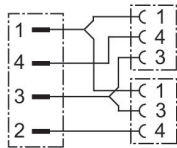
Dimensions



L = length

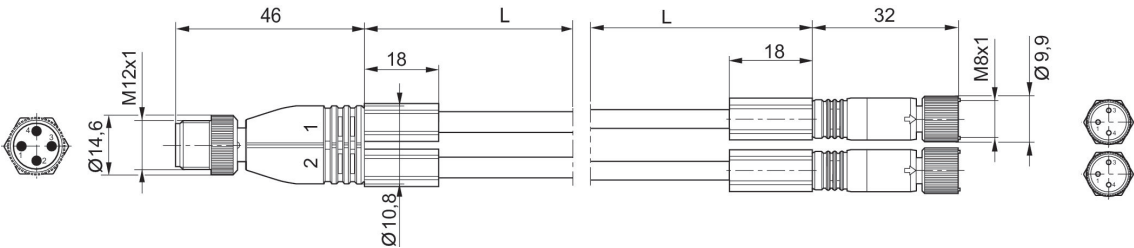
Y-Plug connector, series CON-RD

Plug
Socket
M12x1
M8x1
4-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
48 V AC/DC	Plug	M12x1	Socket	M8x1	0.6	R412021685
48 V AC/DC	Plug	M12x1	Socket	M8x1	3	R412021687

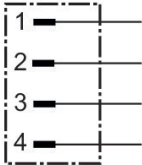
Dimensions



L = length

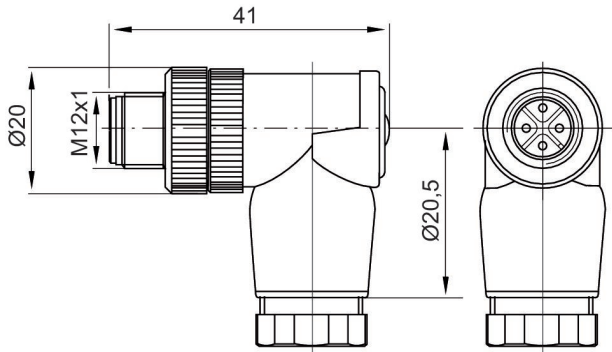
Round plug connector, Series CON-RD

Plug
M12x1
4-pin

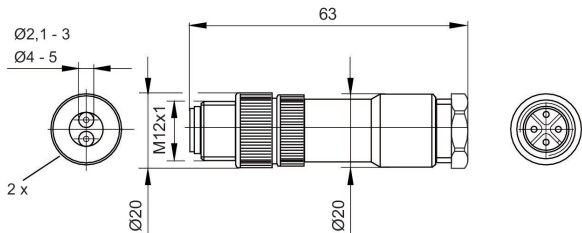


Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	4-pin	4	6	1834484223
48 V AC/DC	4	4-pin	2.1	3	1834484246

1834484223



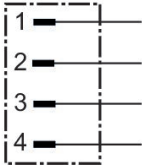
1834484246



duo plug

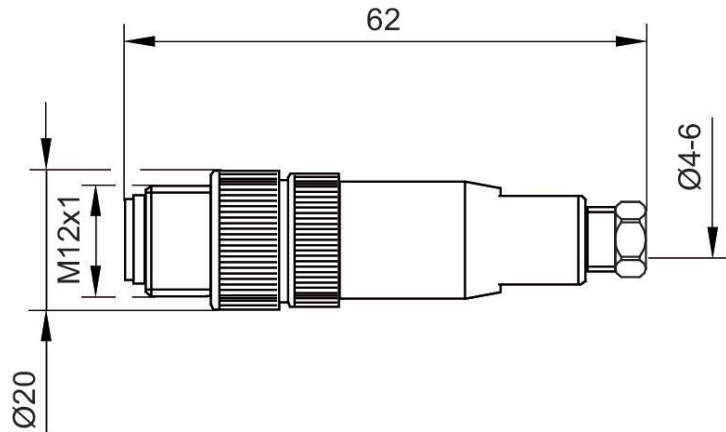
Round plug connector, Series CON-RD

Plug
M12x1
4-pin



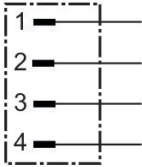
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	4-pin	4	6	1834484222

Dimensions



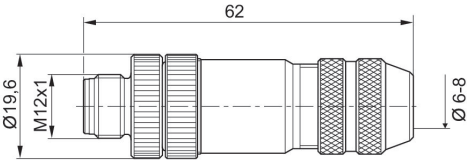
Round plug connector, Series CON-RD

Plug
M12x1
4-pin



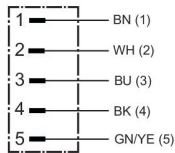
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	4-pin	6	8	R419801401

Dimensions



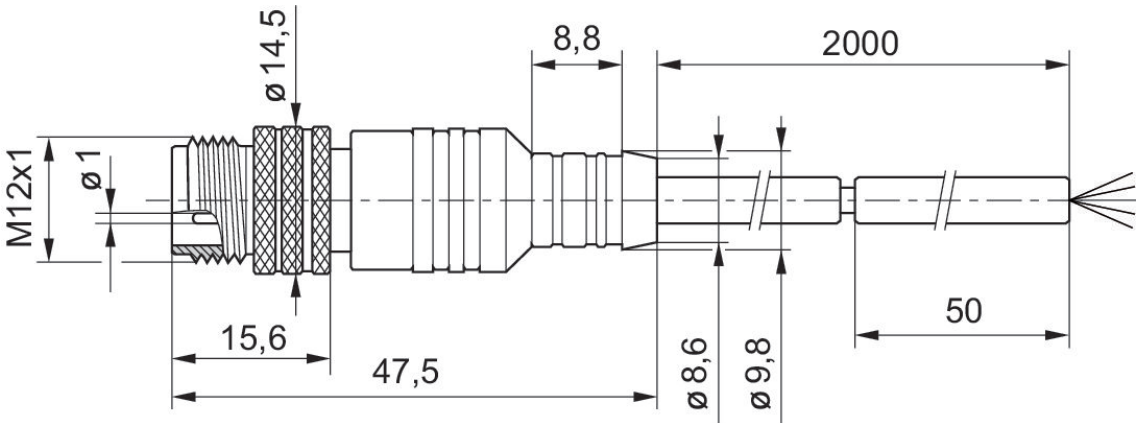
Round plug connector, Series CON-RD

Plug
M12x1
5-pin



Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Cable length [m]	Part No.
Plug	M12x1	open cable ends	2	8946203432
Plug	M12x1	open cable ends	5	8946203442

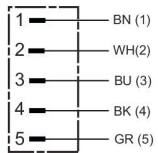
Dimensions



L = length

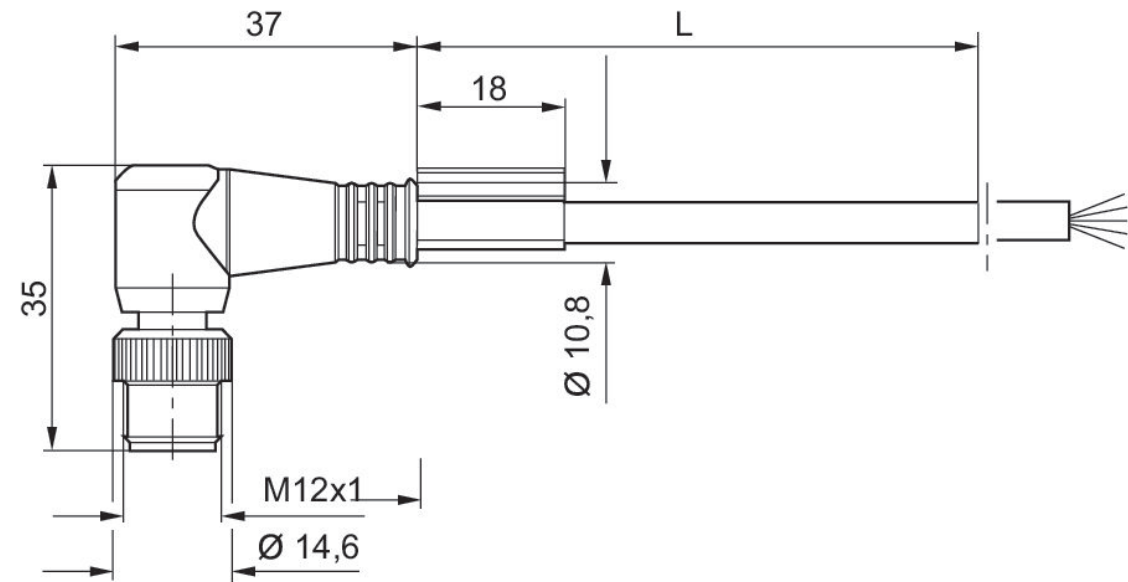
Round plug connector, Series CON-RD

Plug
open cable ends
M12x1
5-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Cable length [m]	Part No.
48 V AC/DC	Plug	M12x1	open cable ends	2	R412021691
48 V AC/DC	Plug	M12x1	open cable ends	5	R412021692
48 V AC/DC	Plug	M12x1	open cable ends	10	R412021693

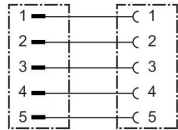
Dimensions



L = length

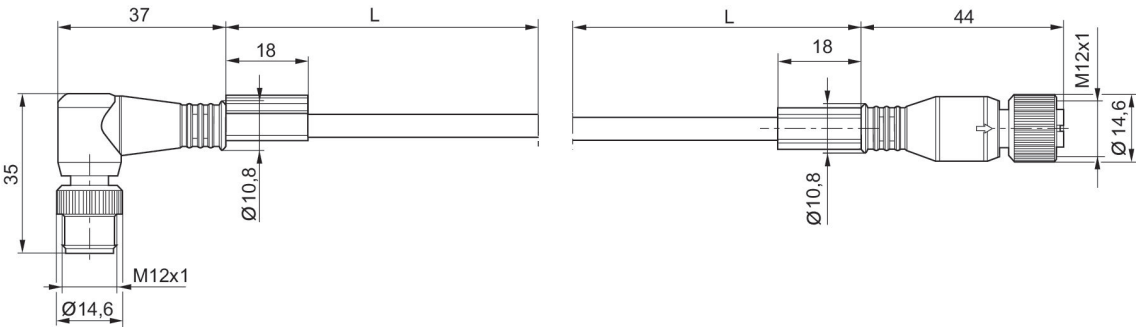
Round plug connector, Series CON-RD

Plug
Socket
M12x1
M12x1
5-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
48 V AC/DC	Socket	M12x1	Plug	M12x1	2	R412021694
48 V AC/DC	Socket	M12x1	Plug	M12x1	5	R412021695

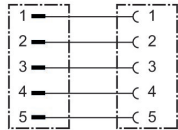
Dimensions



L = length

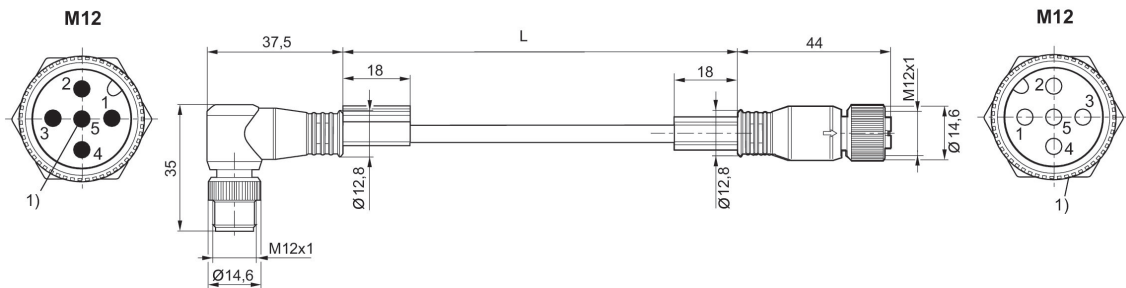
Round plug connector, Series CON-RD

Plug
Socket
M12x1
M12x1
5-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
48 V AC/DC	Socket	M12x1	Plug	M12x1	2	R412022193

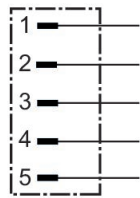
Dimensions



L = length
PIN assignment 1:1
1) Shield is connected to pin 5 of the plug and the knurled screw of the socket.

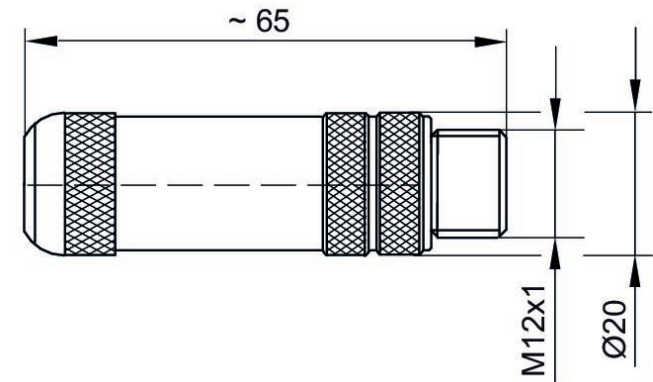
Round plug connector, Series CON-RD

Plug
M12x1
5-pin



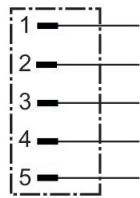
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	5-pin	4	9	8941054054

Dimensions



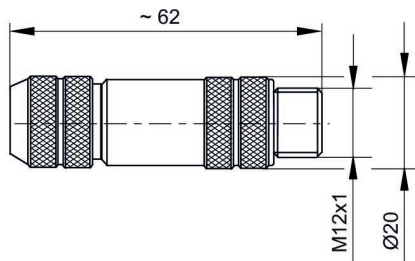
Round plug connector, Series CON-RD

Plug
M12x1
5-pin



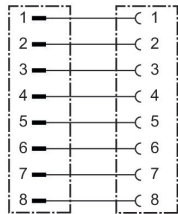
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	5-pin	6	8	8942051612

Dimensions



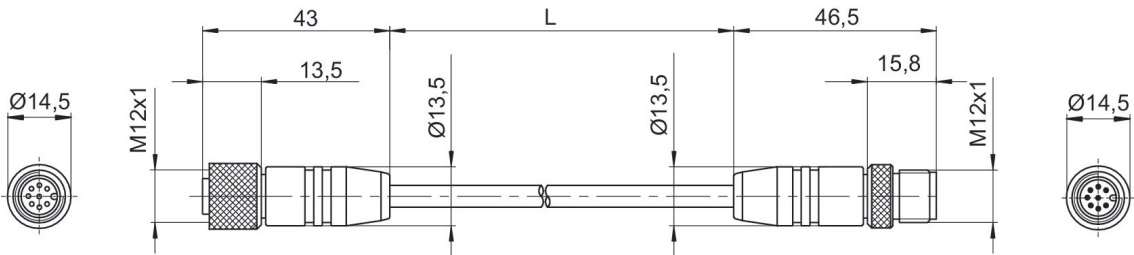
Round plug connector, Series CON-RD

Plug
Socket
M12x1
M12x1
8-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
36 V DC / 30 V AC	Socket	M12x1	Plug	M12x1	0.5	8946202802
36 V DC / 30 V AC	Socket	M12x1	Plug	M12x1	1	8946202812
36 V DC / 30 V AC	Socket	M12x1	Plug	M12x1	2	8946202822
36 V DC / 30 V AC	Socket	M12x1	Plug	M12x1	5	8946202832
36 V DC / 30 V AC	Socket	M12x1	Plug	M12x1	10	8946202842

Dimensions



L = length

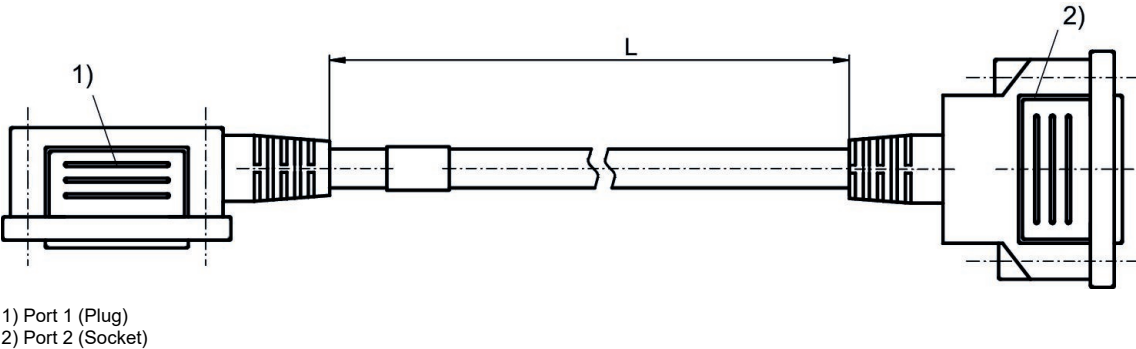
Multipole plug, series CON-MP

Plug
D-Sub
25-pin



Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
24 V DC	Plug	D-Sub	Socket	D-Sub	0.5	R412020635
24 V DC	Plug	D-Sub	Socket	D-Sub	1	R412020636
24 V DC	Plug	D-Sub	Socket	D-Sub	2	R412020637
24 V DC	Plug	D-Sub	Socket	D-Sub	5	R412020638
24 V DC	Plug	D-Sub	Socket	D-Sub	10	R412020639

Dimensions



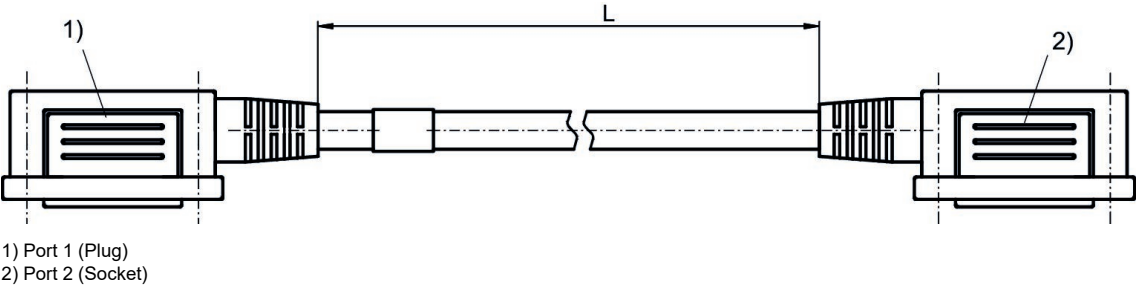
Multipole plug, series CON-MP

Plug
D-Sub
25-pin



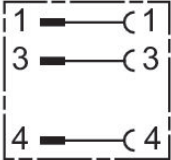
Operational voltage	Electrical connection 1, type	Electrical connection 1, thread size	Electrical connection 2, type	Electrical connection 2, thread size	Cable length [m]	Part No.
24 V DC	Plug	D-Sub	Socket	D-Sub	0.5	R412020630
24 V DC	Plug	D-Sub	Socket	D-Sub	1	R412020631
24 V DC	Plug	D-Sub	Socket	D-Sub	2	R412020632
24 V DC	Plug	D-Sub	Socket	D-Sub	5	R412020633
24 V DC	Plug	D-Sub	Socket	D-Sub	10	R412020634

Dimensions



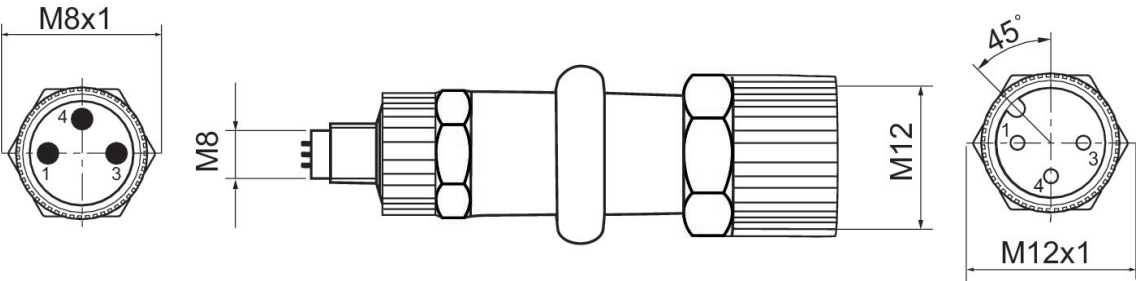
Adapter, Series CON-AP

Plug
Socket
M8x1
M12x1
3-pin



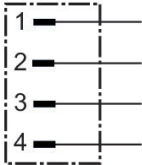
Max. current [A]	Part No.
4	R412021684

Dimensions



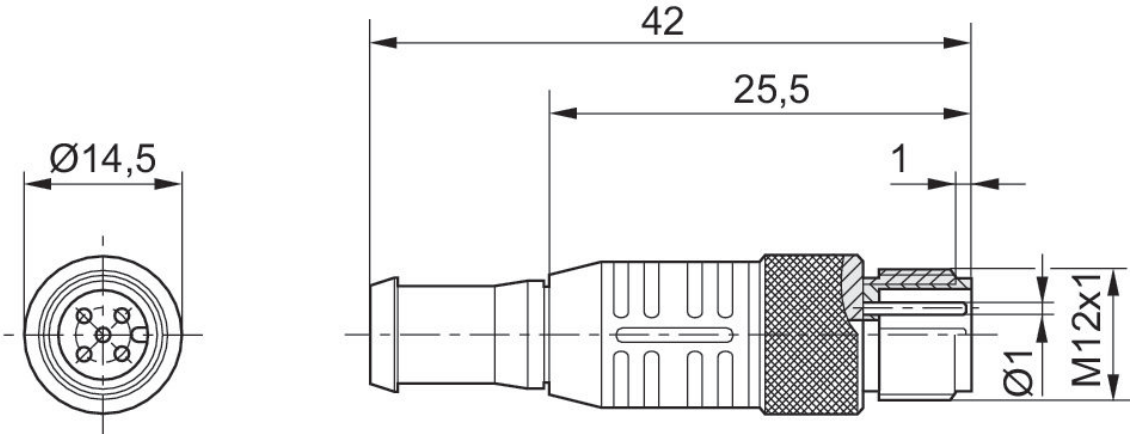
Data final plug, Series CON-RD

Plug
M12x1
4-pin



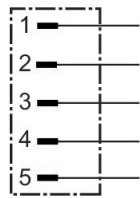
Contact assignment	Part No.
4-pin	8941054064

Dimensions



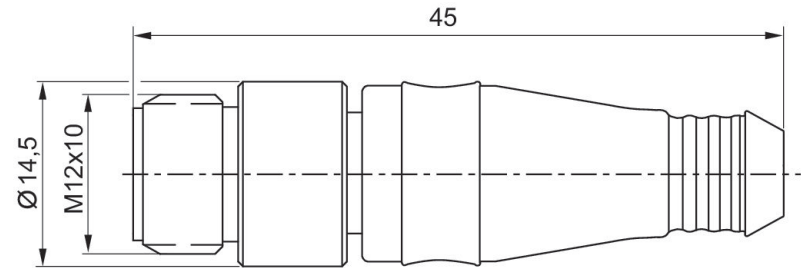
Data final plug, Series CON-RD

Plug
M12x1
5-pin



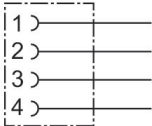
Contact assignment	Part No.
5-pin	8941054264

Dimensions



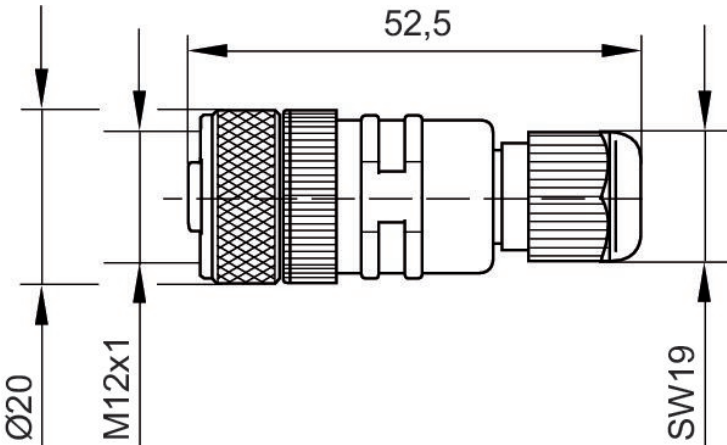
Round plug connector, Series CON-RD

Socket
M12x1
4-pin



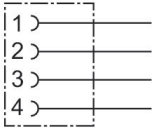
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	4-pin	4	8941054324

Dimensions



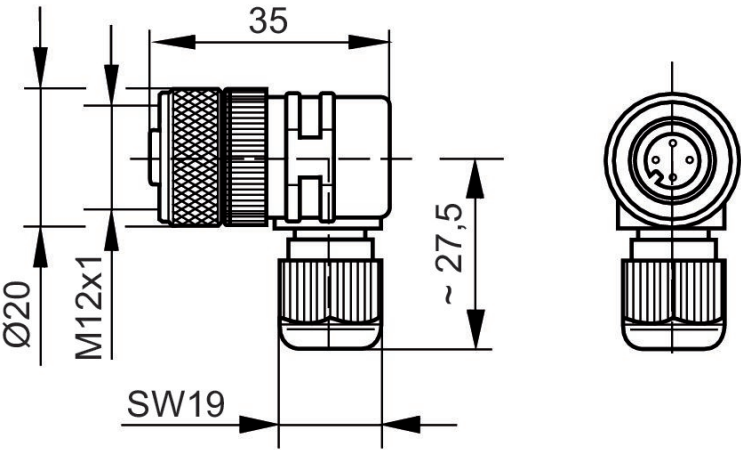
Round plug connector, Series CON-RD

Socket
M12x1
4-pin



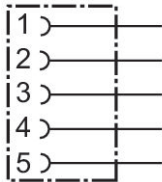
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	4-pin	4	8941054424

Dimensions



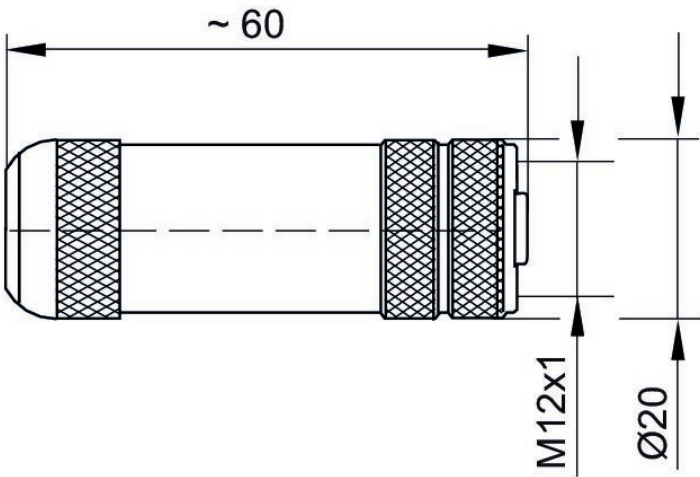
Round plug connector, Series CON-RD

Socket
M12x1
5-pin



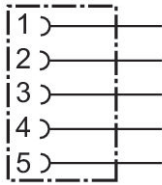
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	5-pin	6	8	8941054044

Dimensions



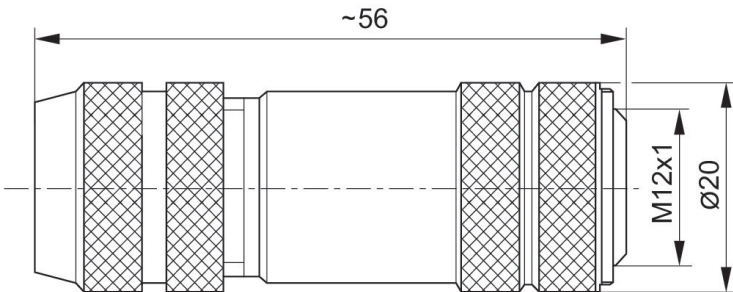
Round plug connector, Series CON-RD

Socket
M12x1
5-pin



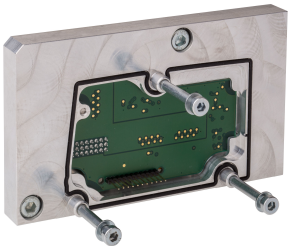
Operational voltage	Max. current [A]	Contact assignment	min. suitable cable Ø [mm]	Part No.
48 V AC/DC	4	5-pin	6	8942051602

Dimensions



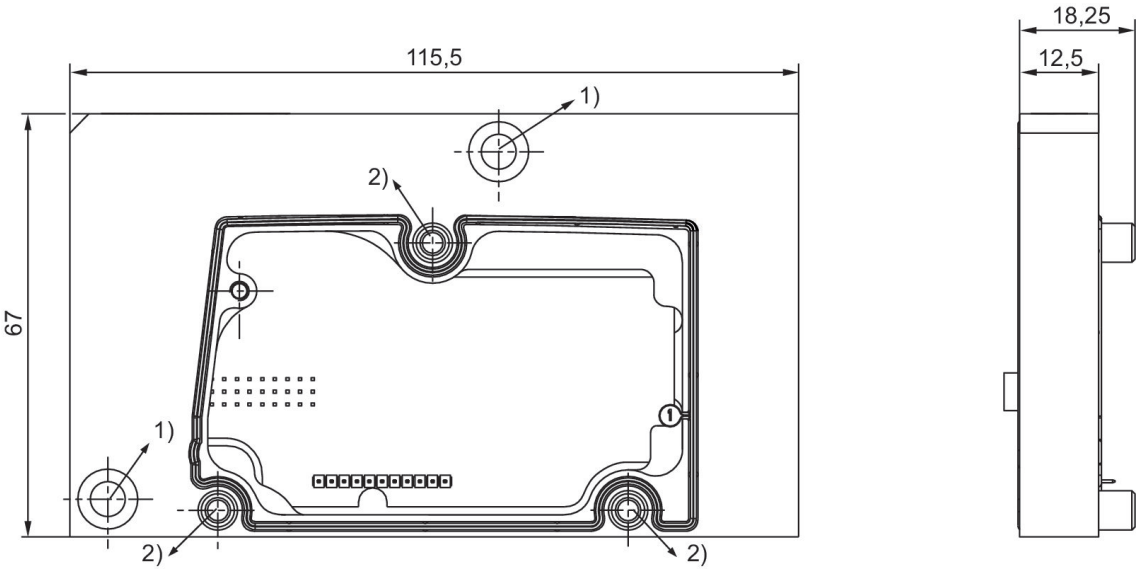
Adapter module

HF02-LG, HF03-LG, HF04
CD01-PI
CD10-PI
CD20-PI



Type	Scope of delivery	Part No.
32 outputs	Includes screws and seals.	R412023458

Dimensions



Includes screws and seals.
1) Torque: 3 Nm +0.5 Nm
2) Torque: 1.6 Nm +0.4 Nm

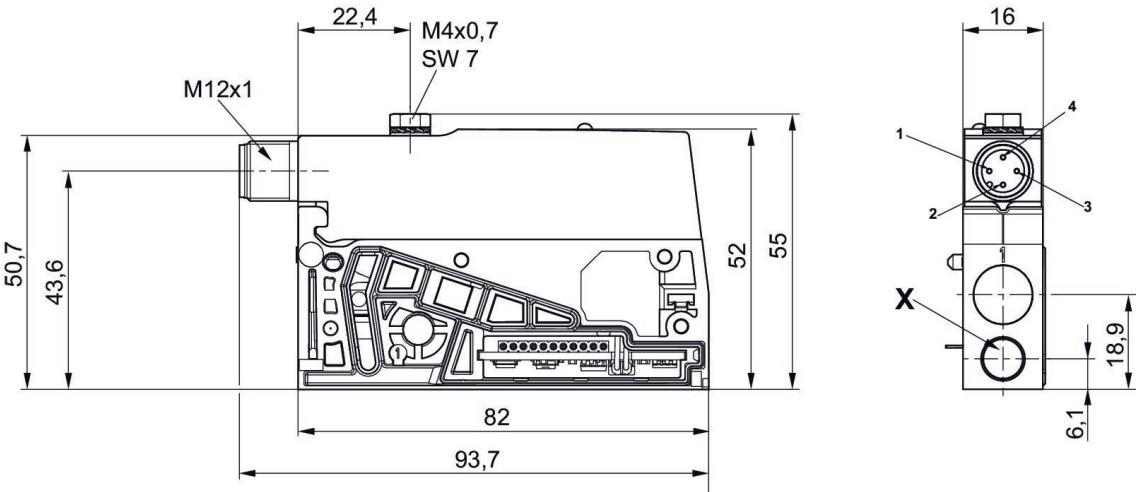
Extension kit, electrical supply plate

AV03
AES
M12



Type	Scope of delivery	Part No.
Assembly kit	Supply plate, incl. 1 seal, 1 tie rod, and 1 screw for extension	R412021748
Assembly kit	Supply plate, incl. 1 seal, 1 tie rod, and 1 screw for extension	R412021752

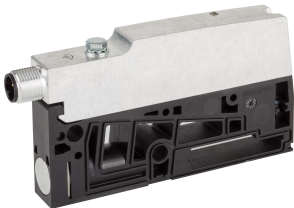
Dimensions



Pin assignment: 1 = (-), 2 = (24 V DC), 3 = (-), 4 = (0 V DC)

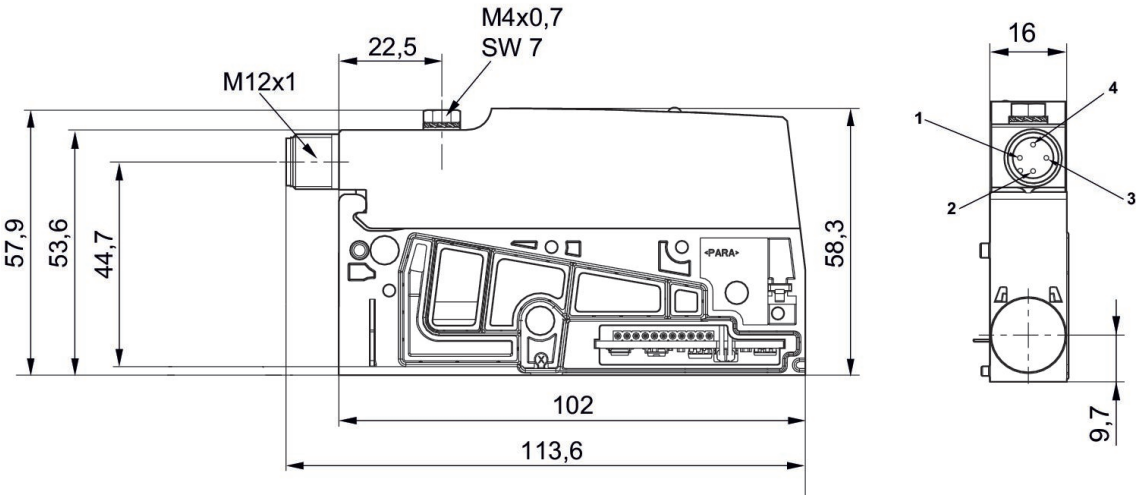
Extension kit, electrical supply plate

AV05
AES
M12



Type	Scope of delivery	Part No.
Assembly kit	Supply plate, incl. 1 seal, 2 tie rods, and 2 screws for extension	R412021778

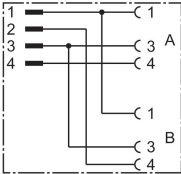
Dimensions



Pin assignment: 1 = (-), 2 = (24 V DC), 3 = (-), 4 = (0 V DC)

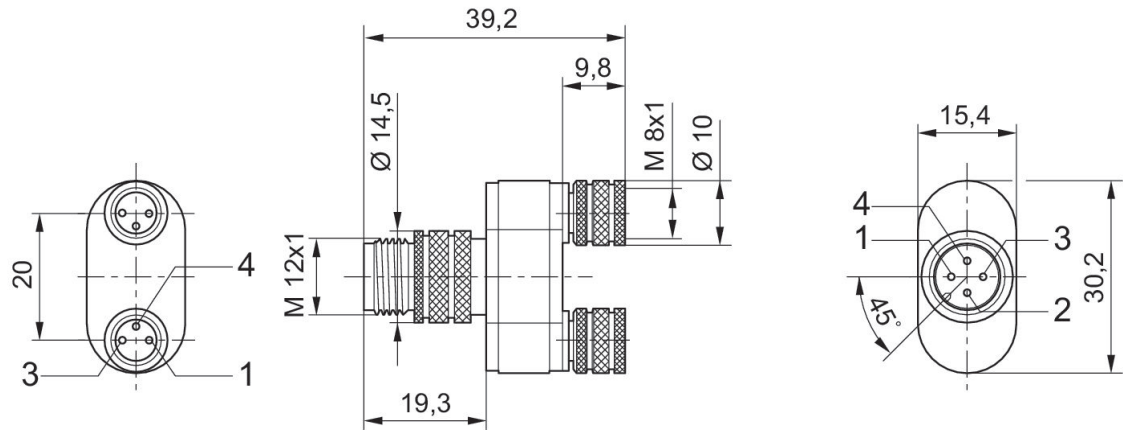
Y-Plug connector, series CON-AP

Socket
M8x1
3-pin



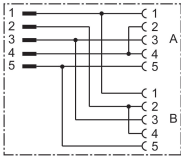
Max. current [A]	Part No.
4	8941002382

Dimensions



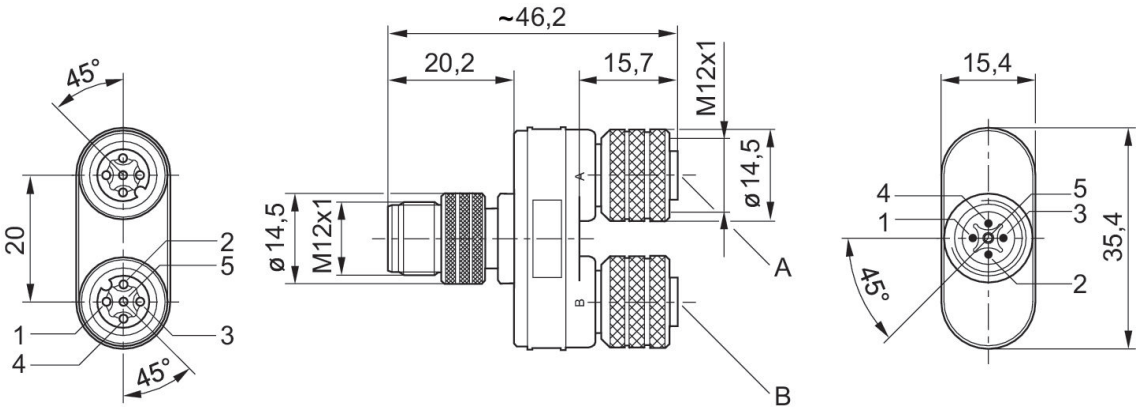
Y-Plug connector, series CON-AP

Plug
Socket
M12x1
M12x1
5-pin



Max. current [A]	Part No.
4	8941002392

Dimensions



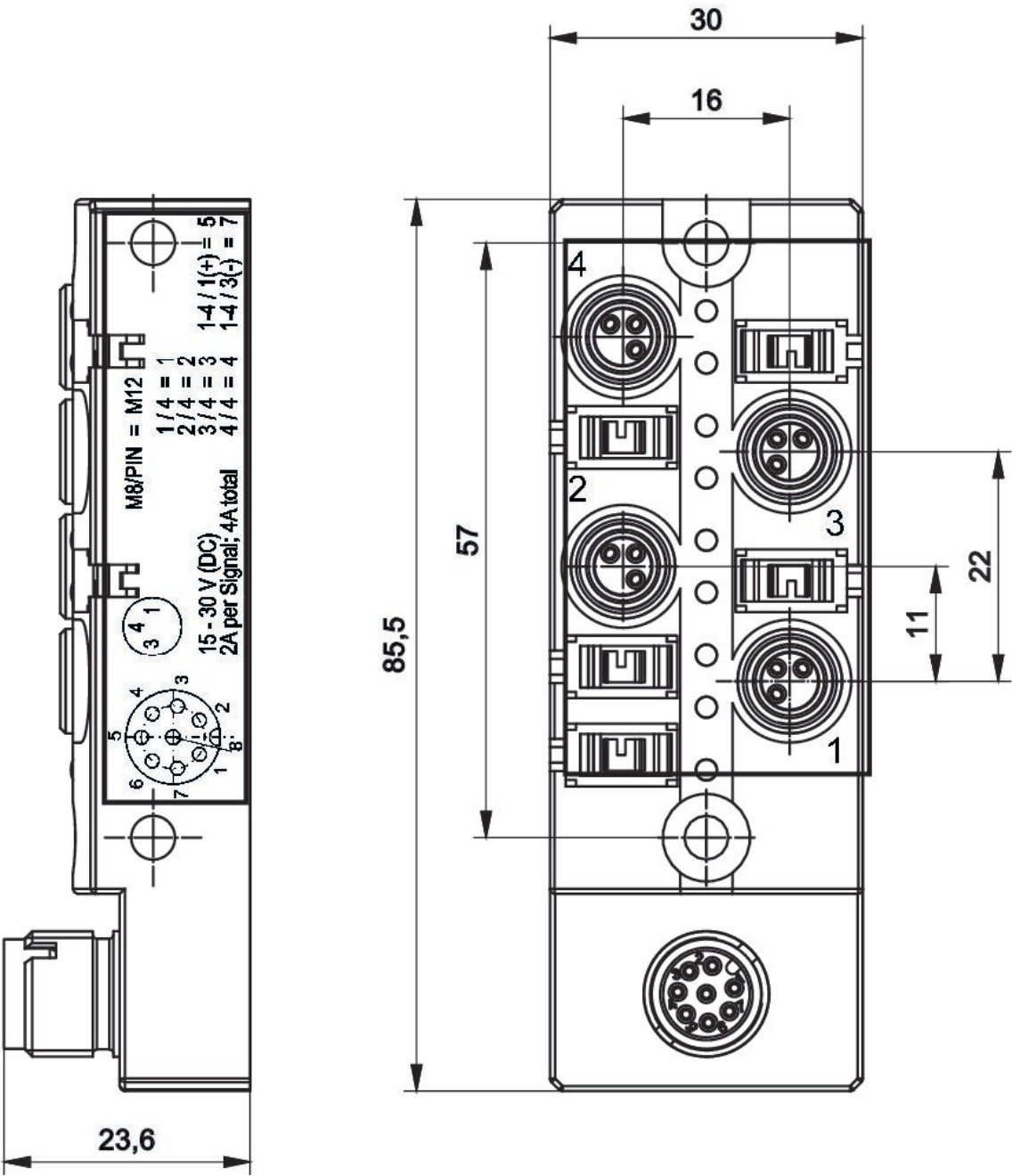
Sockets: Pin 2 and 4 bridged.

Passive distributor, Series AES



E/A capable	Number of I/O connections	Part No.
connection with I/O	4 inputs / 4 outputs	R412028732

Dimensions



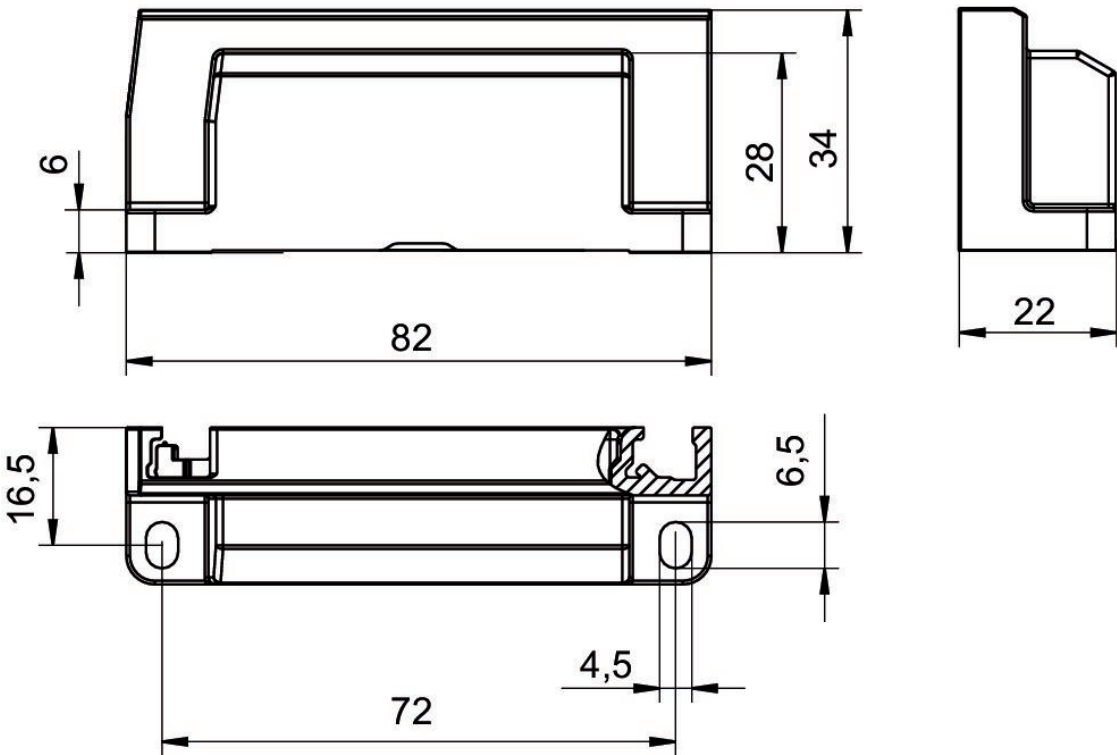
End plate left

AES



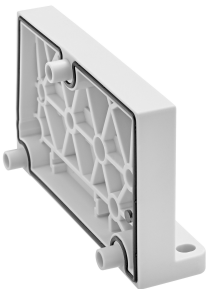
Type	Type	Part No.
End plate left	End plate	R412015398

Dimensions



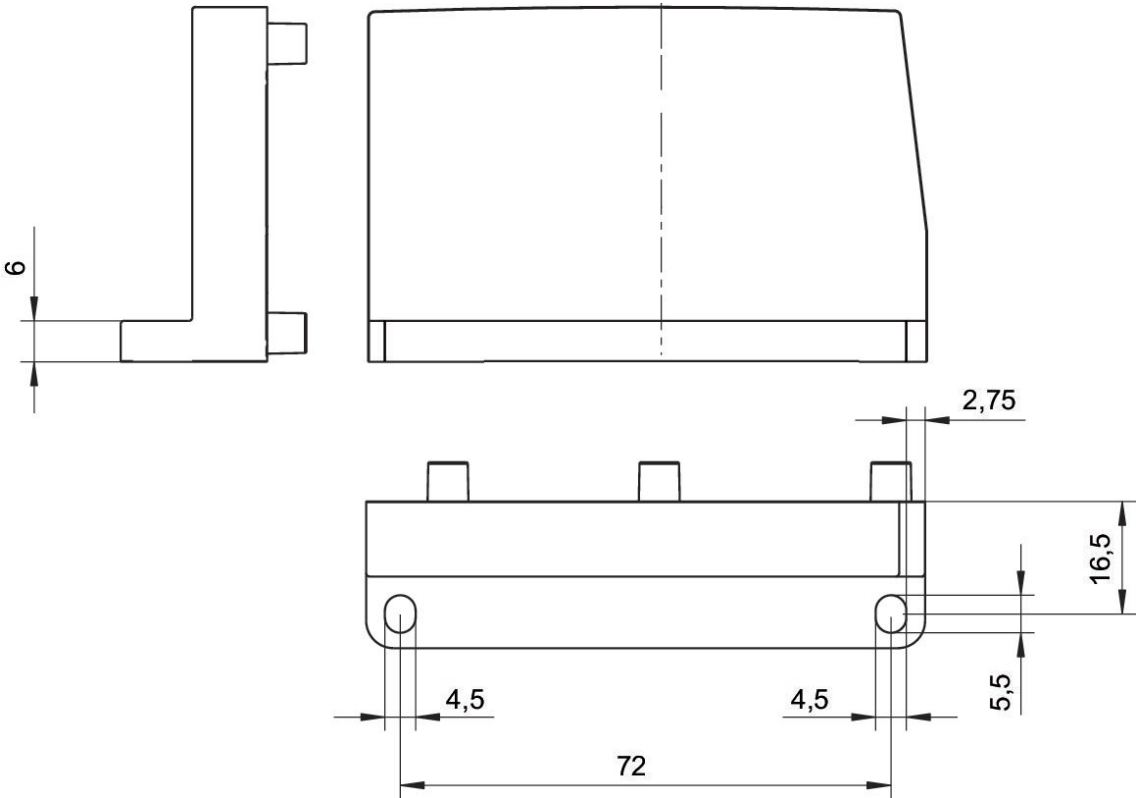
End plate right

AES



Type	Part No.
End plate	R412015741

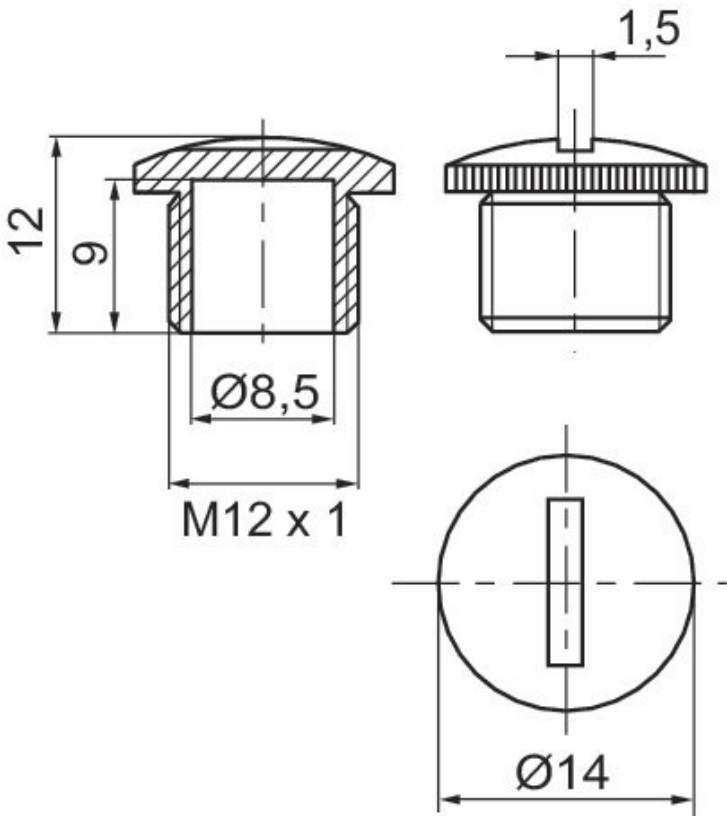
Dimensions



Protective cap, series CON-RD



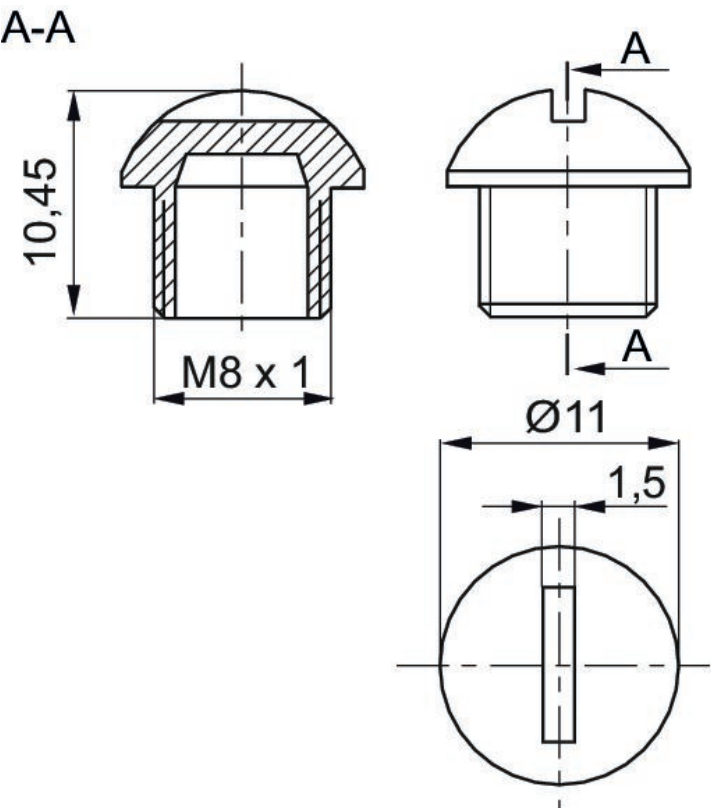
Type	Delivery unit [piece]	Part No.
M12x1	50	1823312001



Protective cap, series CON-RD



Type	Part No.
M8x1	R412003493

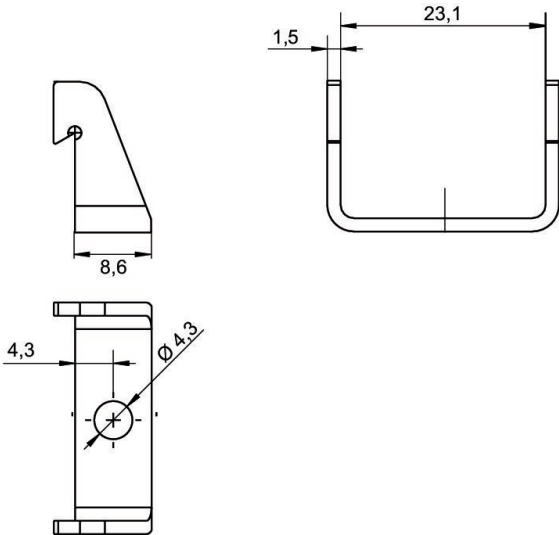


Retaining bracket for intermediate mounting

AES
AV03
AV05



Type	Delivery unit [piece]	Part No.
Retaining brackets	10	R412018339

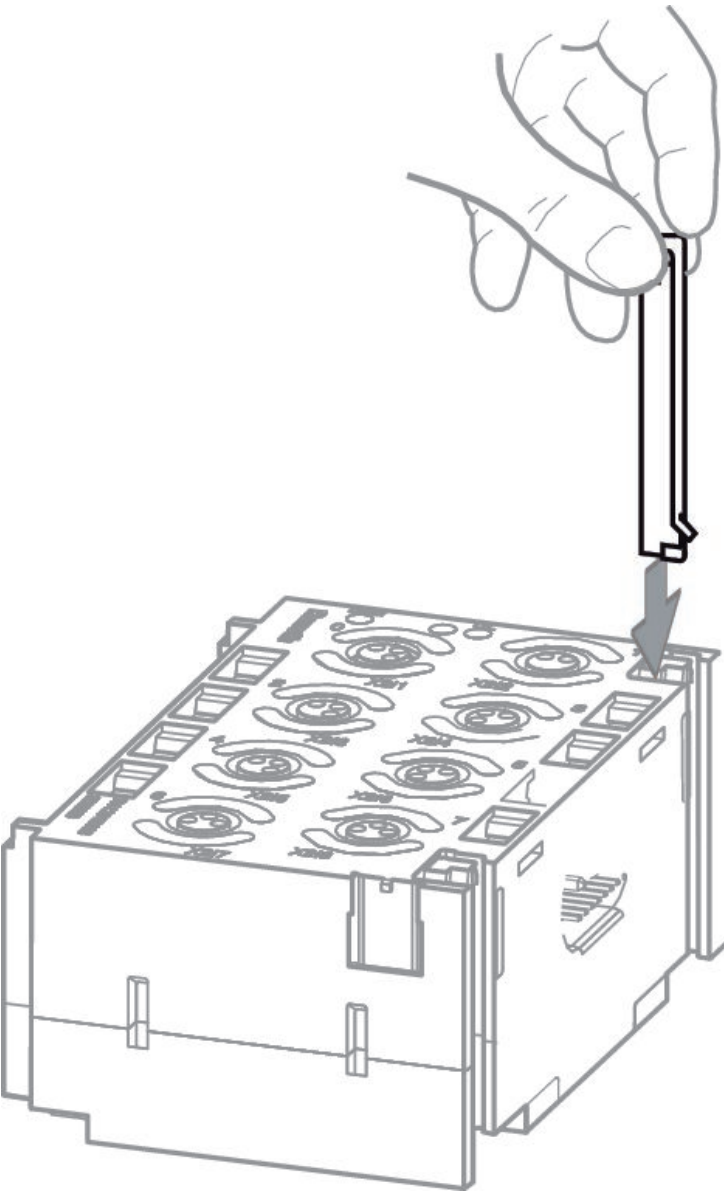


Spring clamp element

AES



Type	Delivery unit [piece]	Part No.
Spring clamp element	10	R412015400

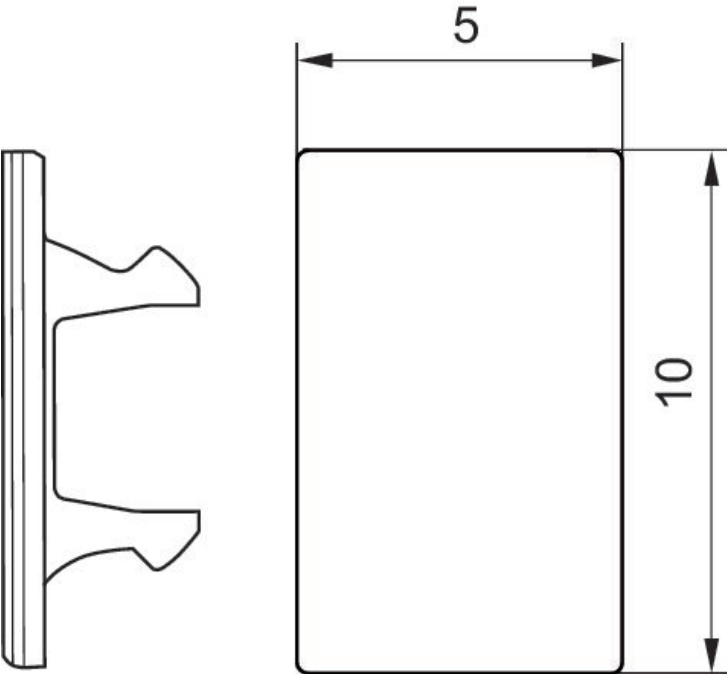


Name plates, AES I/O module

AES
AV03
AV05



Type	Delivery unit [piece]	Part No.
Name plates	60	R412018192

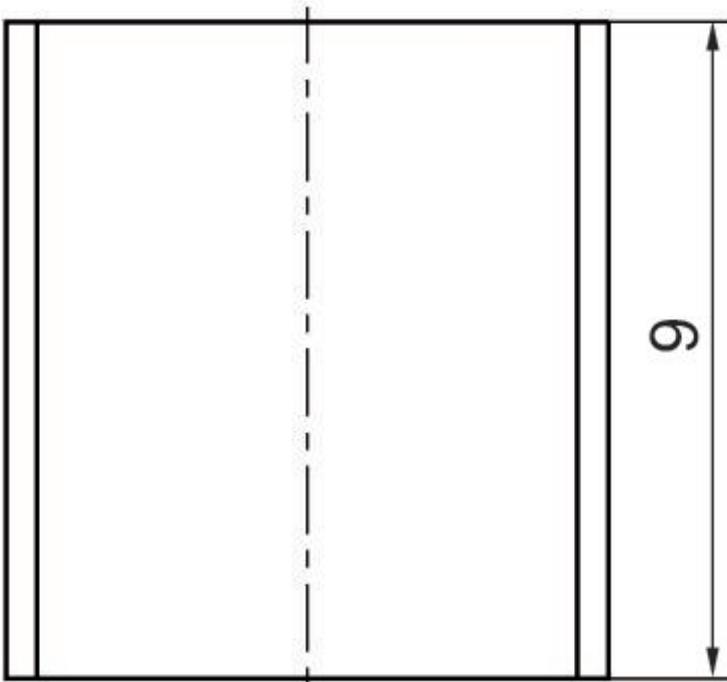
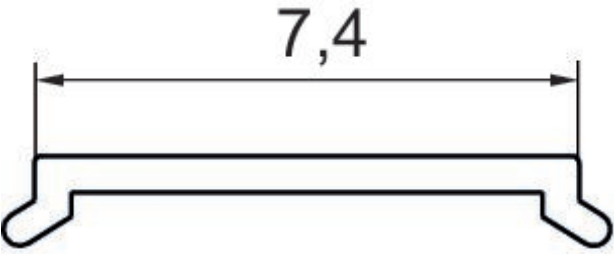


Name plates, AV valve front

AV03
AV05

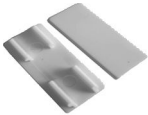


Type	Delivery unit [piece]	Part No.
Name plates	150	R412019552



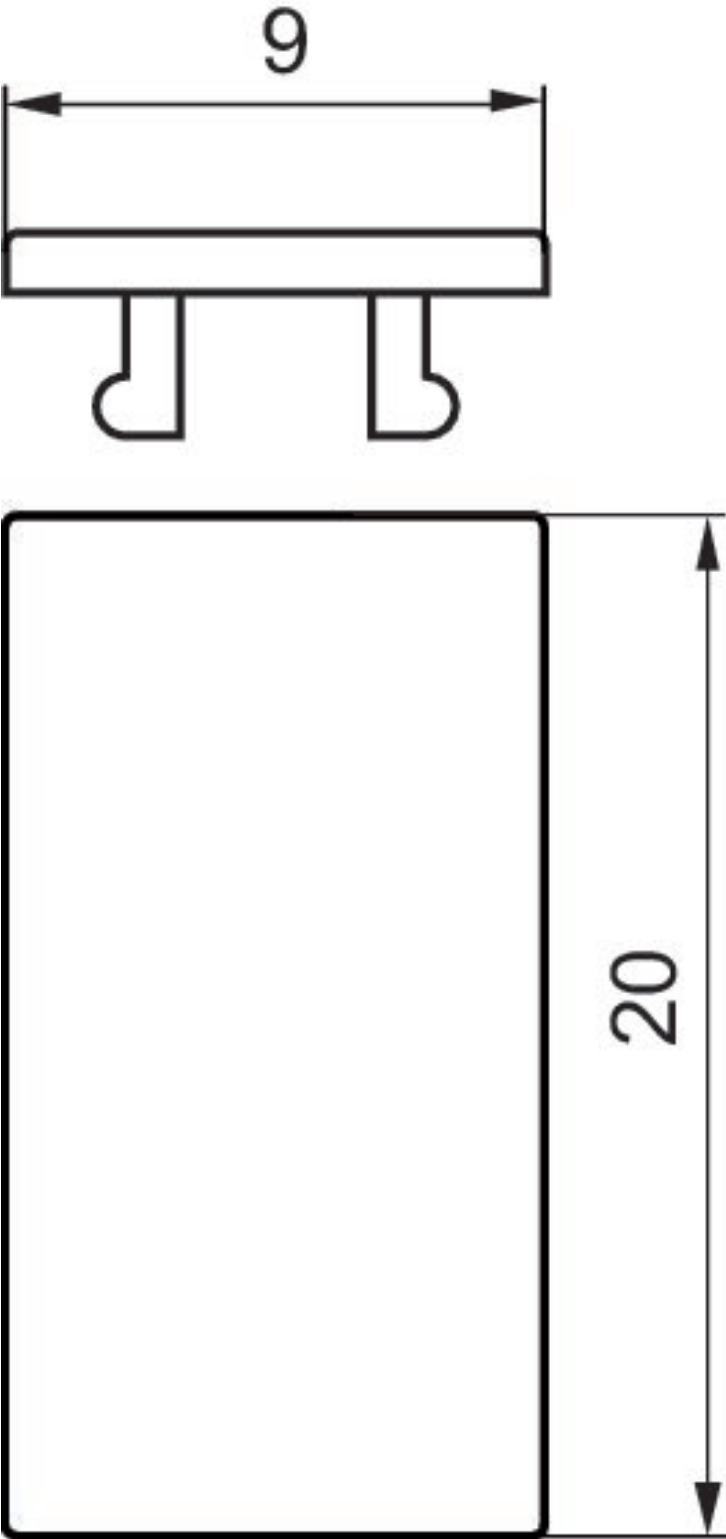
Name plates, AV valve, AES bus coupler above

AV03
AV05
AES



Type	Delivery unit [piece]	Part No.
Name plates	24	R422100889

Dimensions

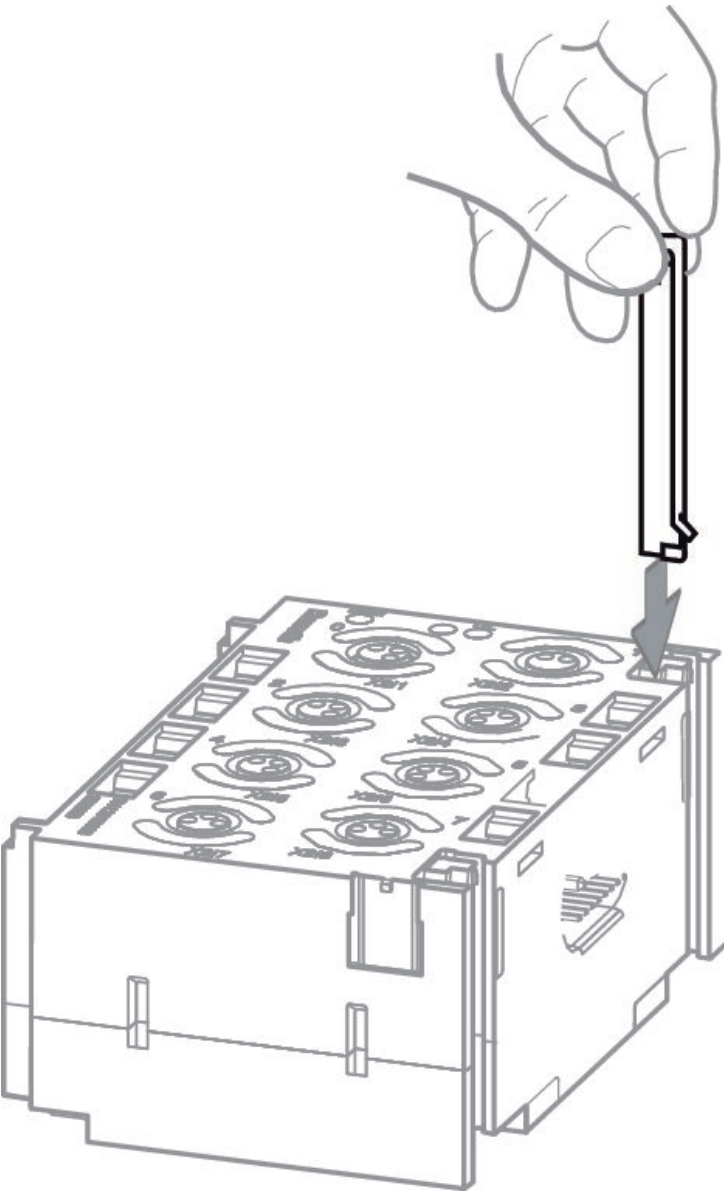


Spring clamp element

AES



Type	Delivery unit [piece]	Part No.
Spring clamp element	10	R412015400



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