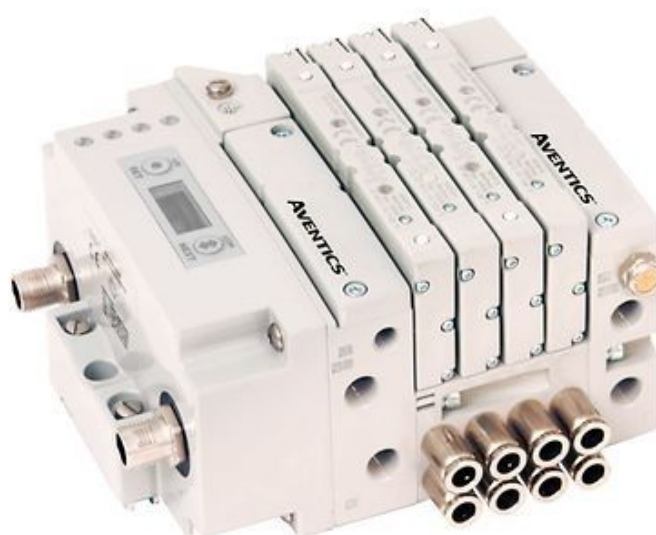


Series 580



AVENTICS™

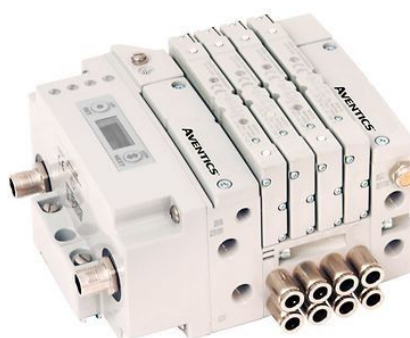
**AVENTICS Series 580 Pneumatic
Communications Node**


EMERSON™

AVENTICS Series 580 Pneumatic Communications Node

The AVENTICS Series 580 fieldbus communications node supports up to 128 AVENTICS 500 Series solenoid valves per valve system in a compact package. It features an integrated graphic display for simple commissioning and display of diagnostic information. The 580 communication node mates to a variety of valve platforms including AVENTICS 501, 502 and 503 series. AVENTICS 580 Series communications nodes are ideal for use in automotive, tire, packaging, pharmaceutical processing, food and beverage, fine chemicals, and water/wastewater applications.

- Compact size and flexibility mean more valves can be placed in a single cabinet or a smaller enclosure can be used to house the same number of valves
- Onboard LED display shows configuration and system diagnostics data for easy commissioning and setup
- No internal wiring simplifies assembly
- Power connector allows output power to be removed while inputs and communications are left active
- Direct pneumatic manifold connection to Emerson DeltaV distributed control system with electronic marshalling platform via the 580 CHARM node
- Supported protocols include EtherCAT, EtherNet/IP, EtherNet/IP DLR, PROFIBUS DP, CANopen, DeviceNet, IO-Link, and PROFINET



Product overview

	Page
Bus coupler	
Series 580.....	4
Central fieldbus connection without I/O function Power supply plug M12x1, 4-pin - IO-Link	
Bus coupler, Series 580.....	6
CANopen Central fieldbus connection without I/O function Power supply plug M12x1, 4-pin - CANopen	
Series 580.....	8
Central fieldbus connection without I/O function - DeviceNet	
Series 580.....	10
Central fieldbus connection without I/O function - EtherCAT	
Series 580.....	12
Central fieldbus connection without I/O function - EtherNet/IP	
Series 580.....	14
Central fieldbus connection without I/O function - POWERLINK	
Series 580.....	16
Central fieldbus connection without I/O function Power supply plug M12x1, 5-pin class B - PROFIBUS DP	
Series 580.....	18
Central fieldbus connection without I/O function - Profinet	
Accessories 580	
Y-Plug connector, series CON-AP.....	20
Socket - M12x1 - 5-pin - straight - Plug - M12x1 - 5-pin - straight - Plug - M12x1 - 4-pin	

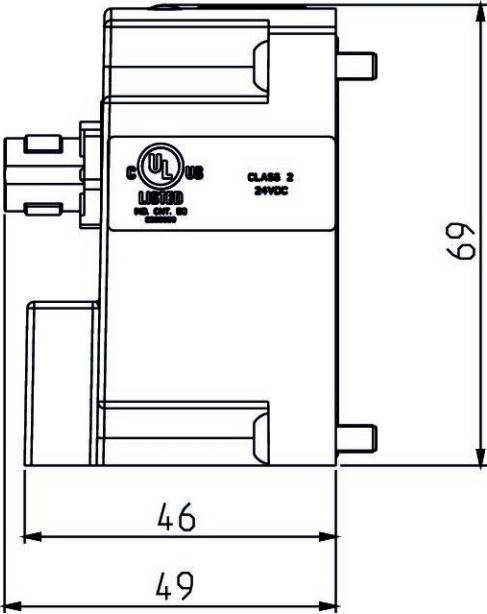
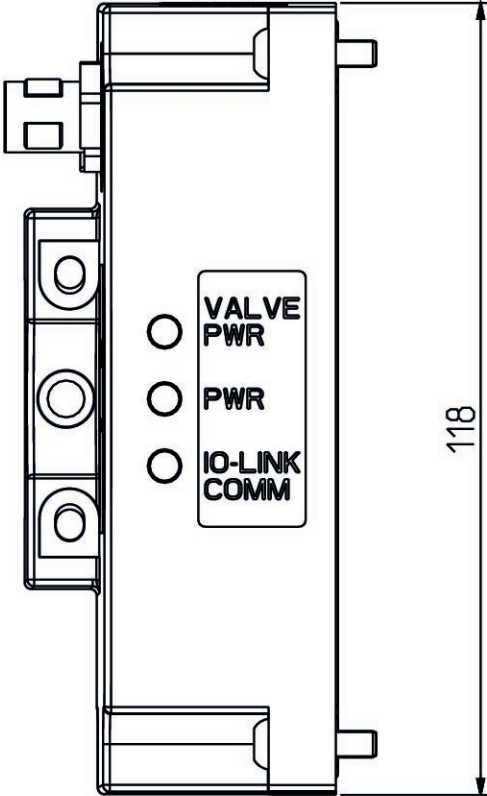
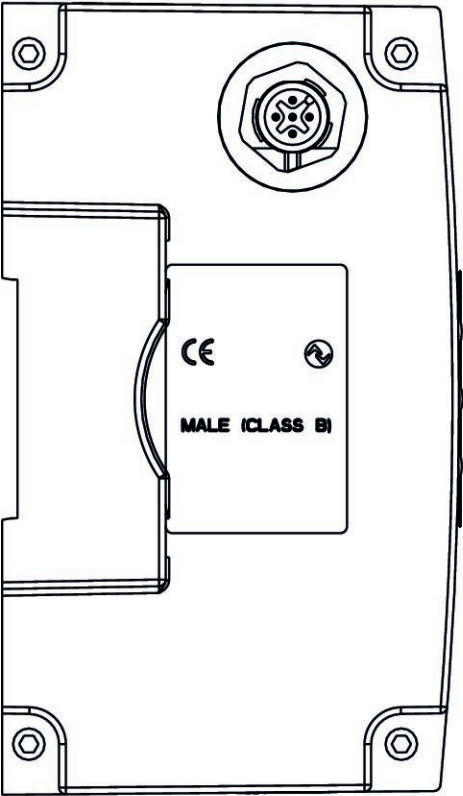
Series 580

Min. ambient temperature: -10 °C
Max. ambient temperature: 50 °C



Type	Fieldbus protocol	Operational voltage electronics	Operational voltage electronics	Part No.
class A	IO-Link	24 V DC	-10 % / +10 %	P580AELM1010A00
class B	IO-Link	24 V DC	-10 % / +10 %	P580AELM2010A00

Dimensions

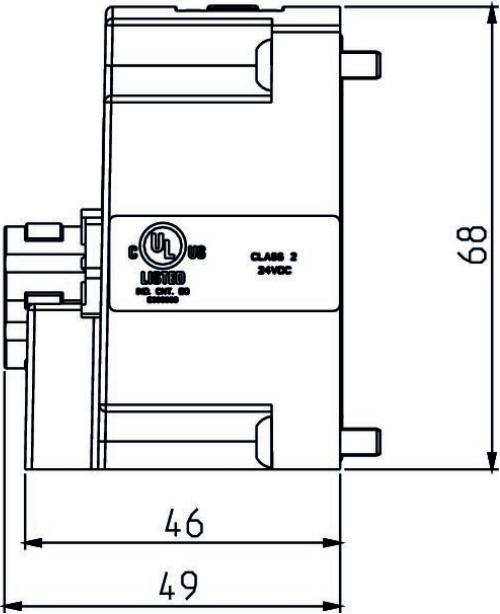
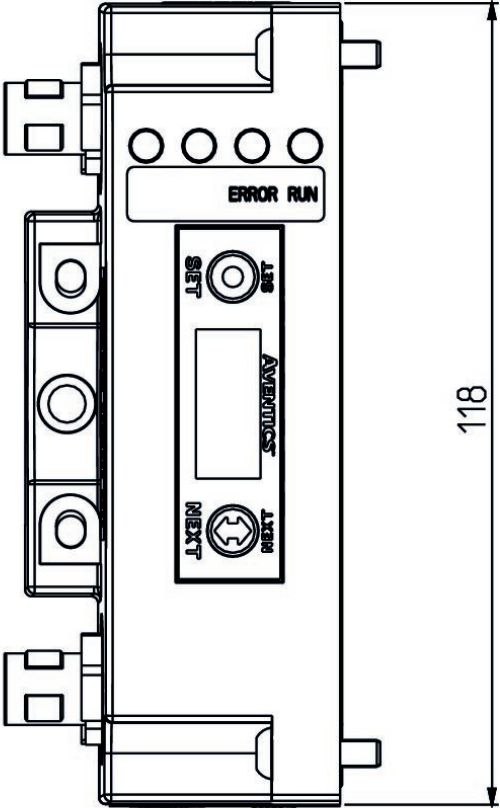
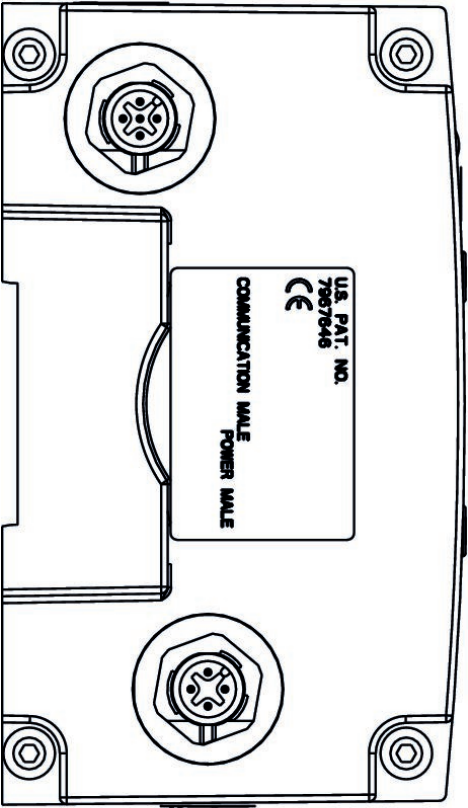


Bus coupler, Series 580



Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
CANopen	4-pin	24 V DC	-10 % / +10 %	P580AECO1010A00

Dimensions

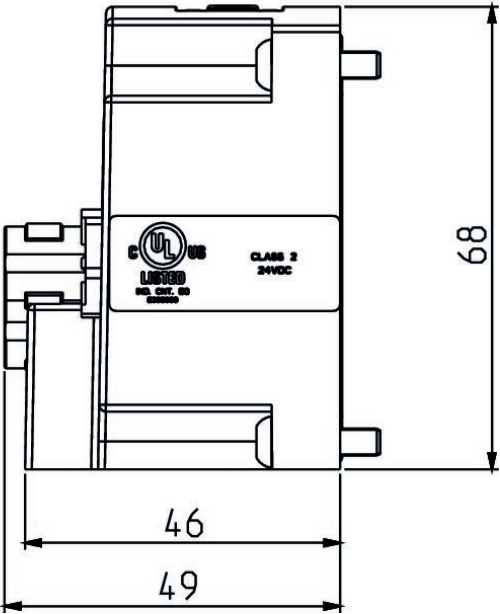
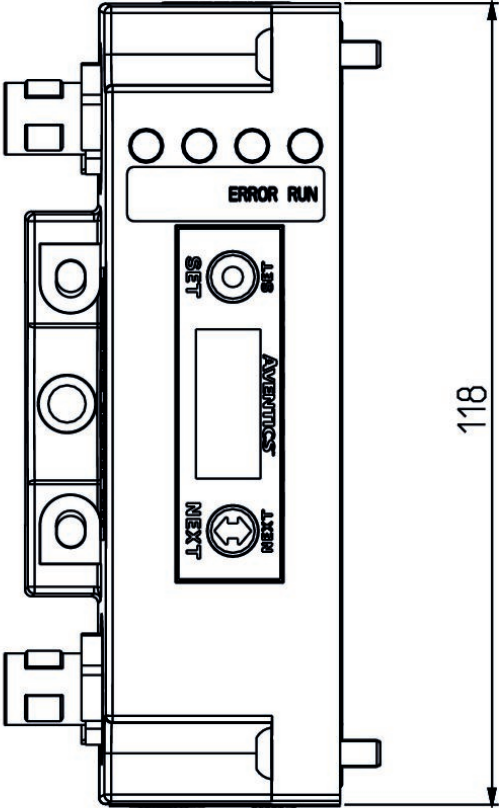
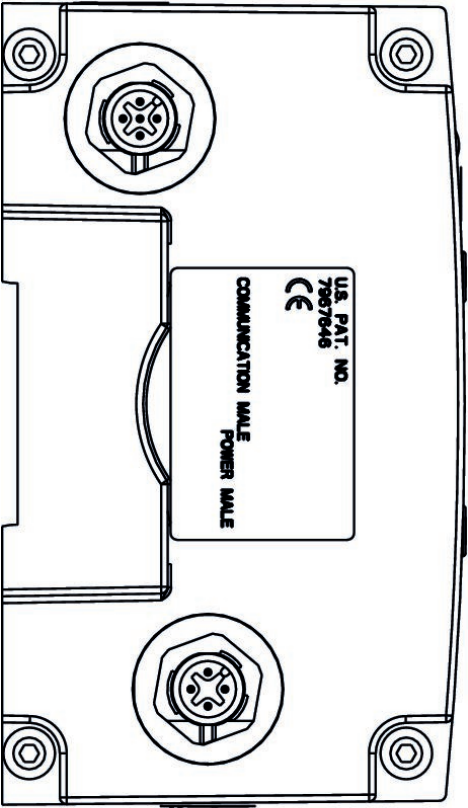


Series 580



Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
DeviceNet	4-pin	24 V DC	-10 % / +10 %	P580AEDN1010A00

Dimensions

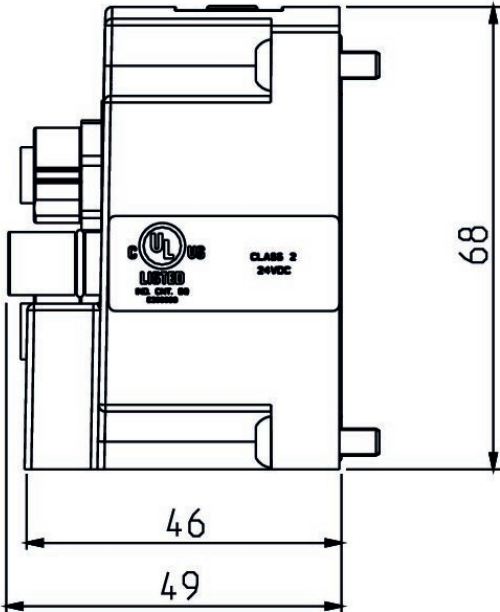
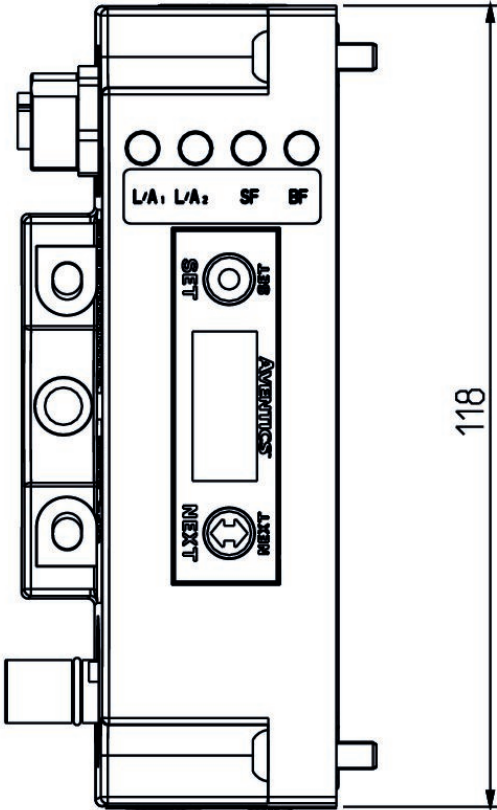
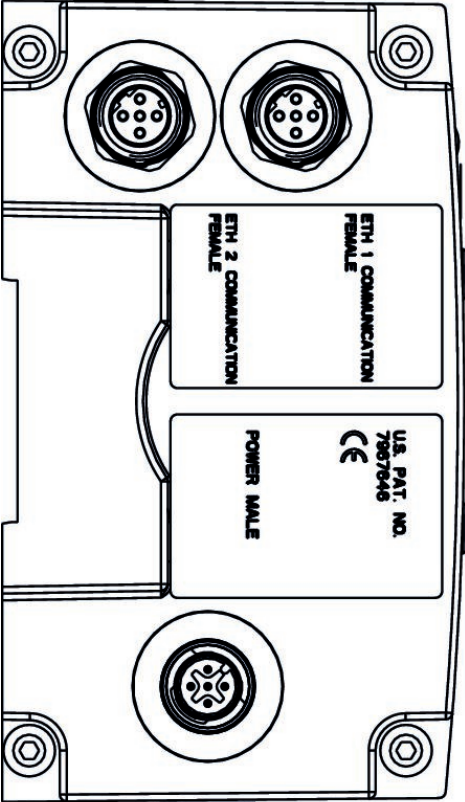


Series 580



Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
EtherCAT	5-pin	24 V DC	-10 % / +10 %	P580AEEC1010A00

Dimensions

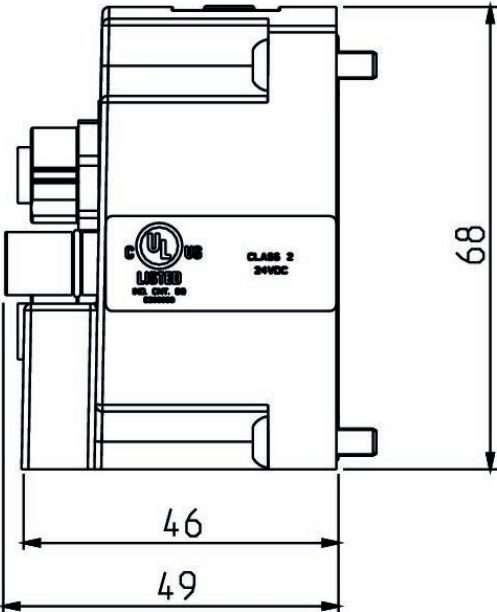
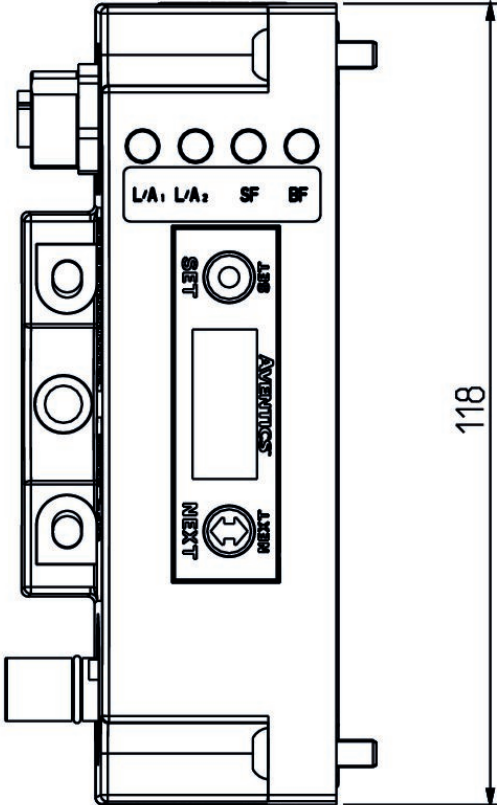
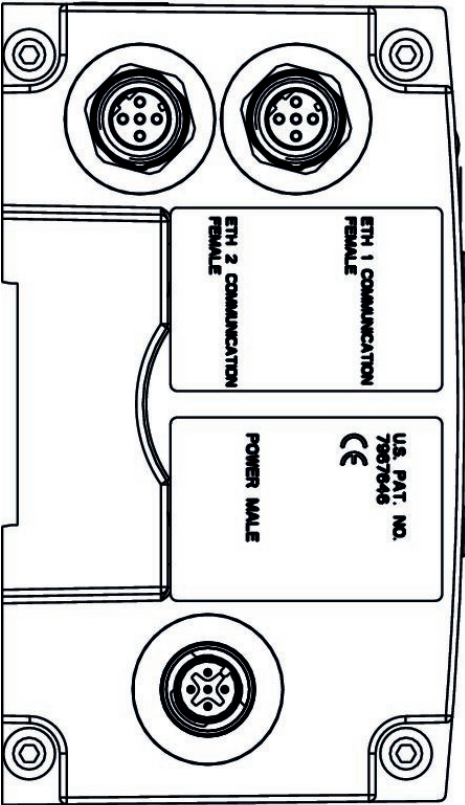


Series 580



Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
EtherNet/IP	4-pin	24 V DC	-10 % / +10 %	P580AEED1010A00

Dimensions

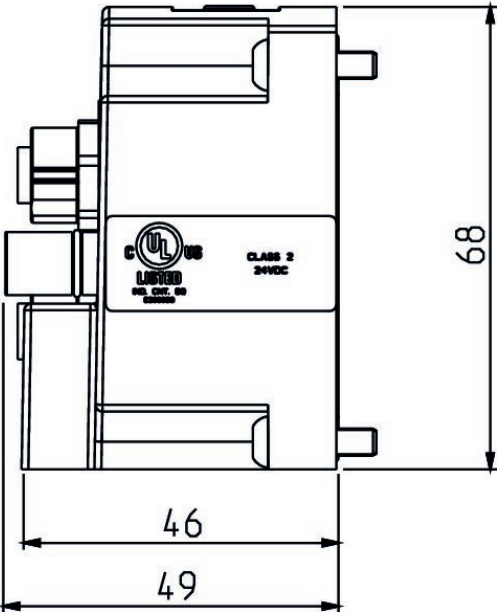
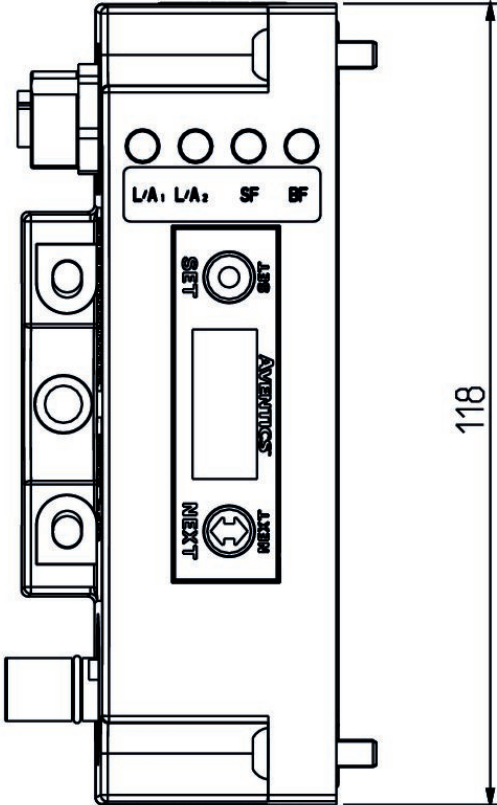
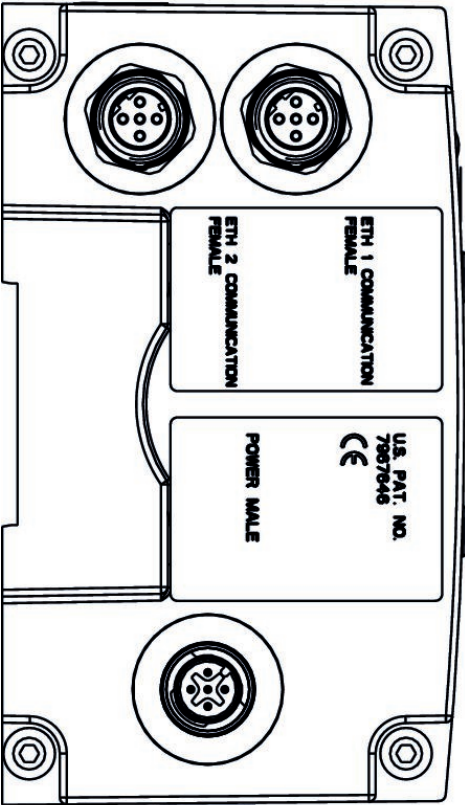


Series 580



Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
POWERLINK	4-pin	24 V DC	-10 % / +10 %	P580AEPL1010A00

Dimensions

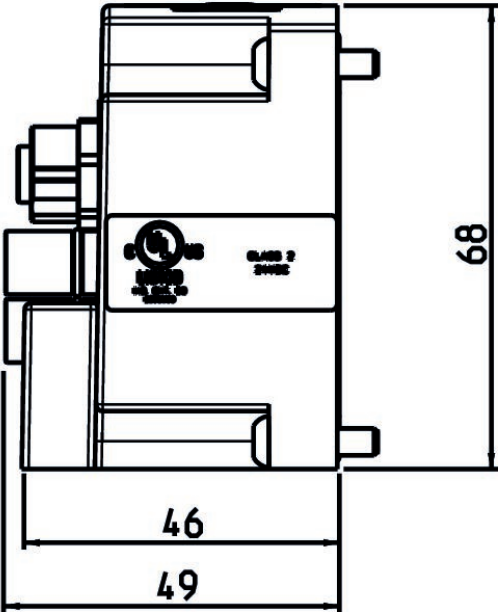
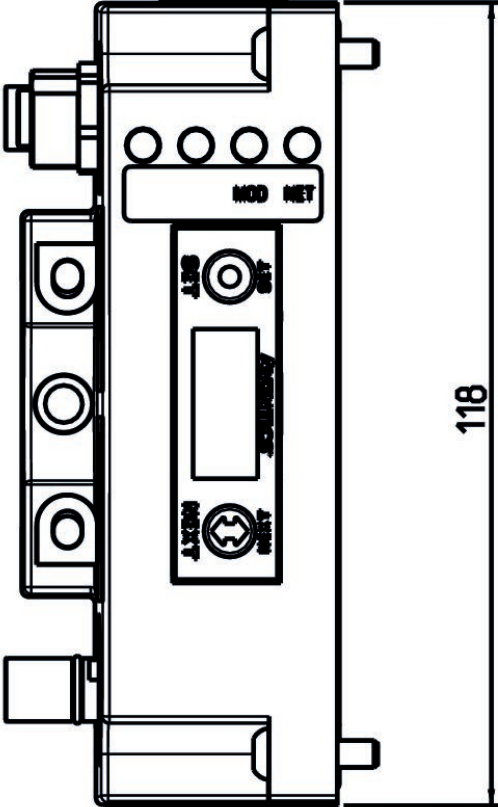
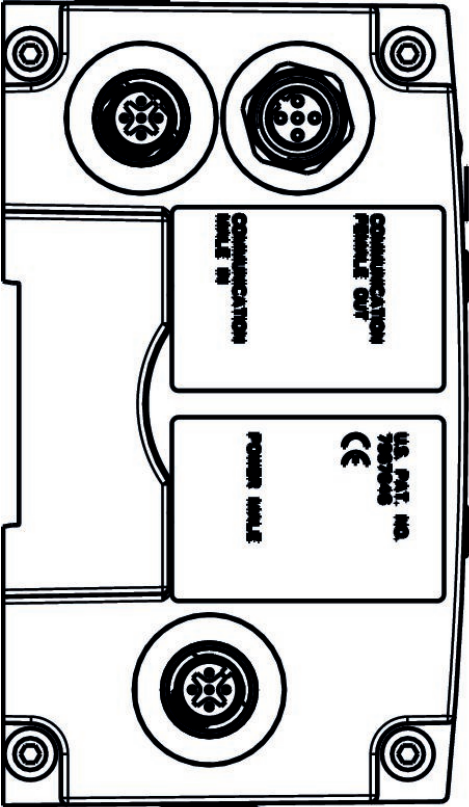


Series 580



Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
PROFIBUS DP	5-pin	24 V DC	-10 % / +10 %	P580AEPT1010A00

Dimensions

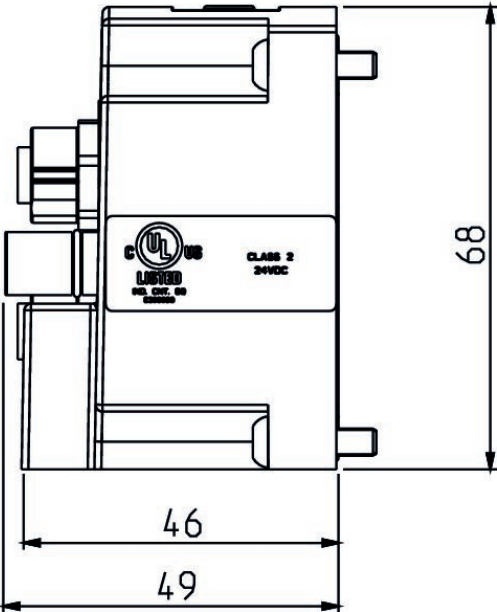
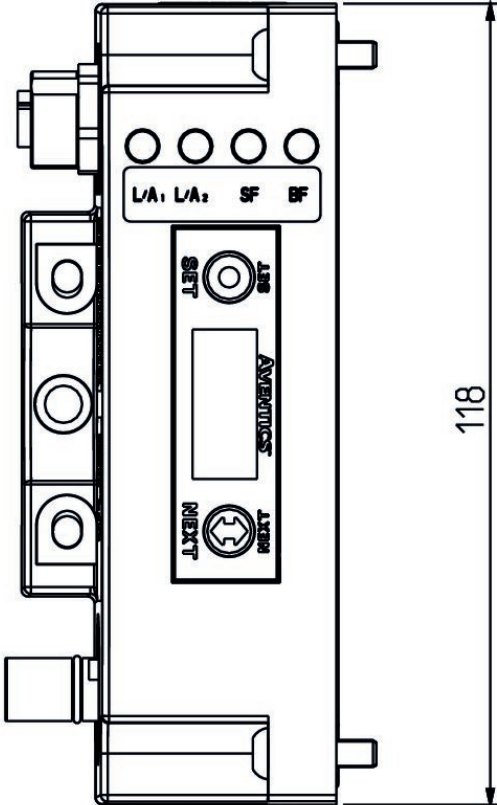
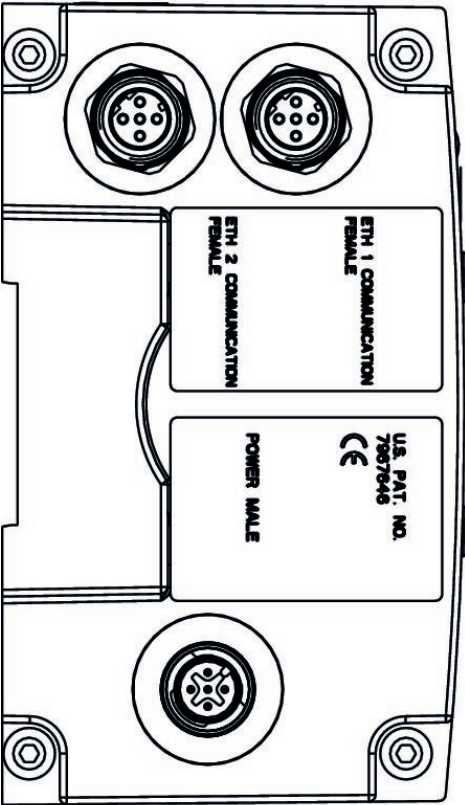


Series 580



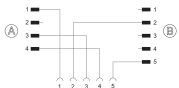
Fieldbus protocol	Number of poles	Operational voltage electronics	Operational voltage electronics	Part No.
Profinet	5-pin	24 V DC	-10 % / +10 %	P580AEPN1010A00

Dimensions



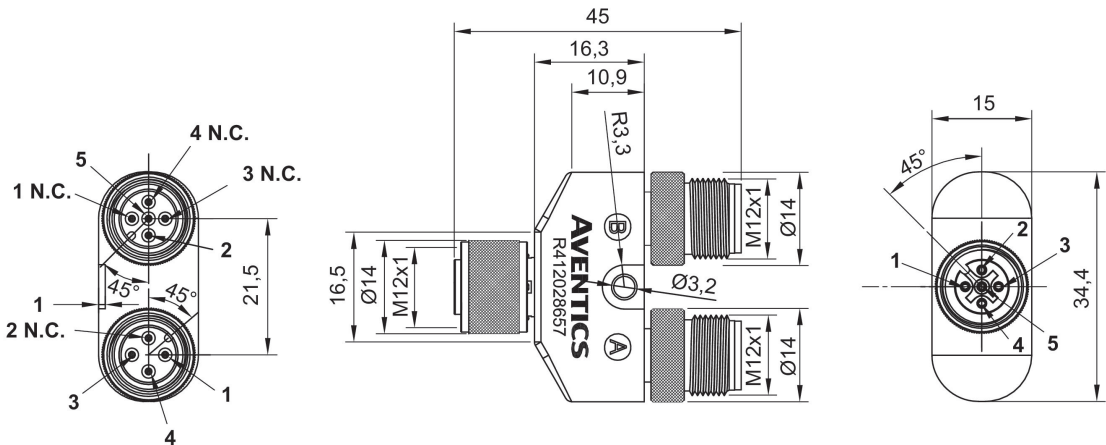
Y-Plug connector, series CON-AP

Electrical connection 1: Socket ... M12x1 ... 5-pin ... straight
Electrical connection 2: Plug ... M12x1 ... 5-pin ... straight
Electrical connection 3: Plug ... M12x1 ... 4-pin
Shielding: unshielded
Ambient temperature min./max.: -25 °C ... 90 °C



Operational voltage	Coding	Shielding	Max. current [A]	Part No.
60 V DC / 110 V AC	A-coded	unshielded	4	R412028657

Dimensions in mm



A = Electrical connection 2
B = Electrical connection 3

Efficient pneumatic solutions, our program:
cylinders and drives, valves and valve systems,
air supply management, proportional pressure
control valves



EMERSON
AVENTICS
Pneumatic Solutions

EMERSON
AVENTICS
Pneumatic Solutions
Pneumatic Solutions
Pneumatic Solutions
Pneumatic Solutions



The Emerson logo is a trademark and service mark of Emerson Electric Co. AVENTICS is a registered trademark of one of the Emerson family of companies. All other trademarks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.


EMERSON.

CONSIDER IT SOLVED[®]