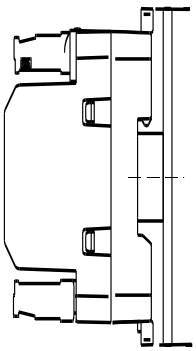
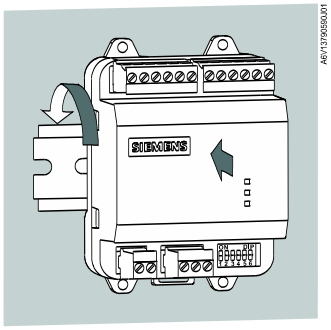
SIEMENS

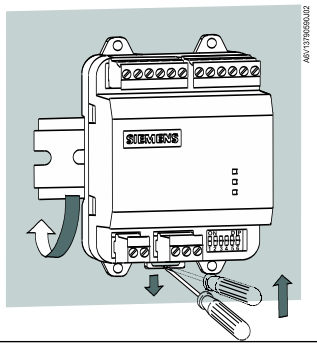
EM1.8D
EM1.8R
EM1.8U

Mounting

DIN rail mounting:



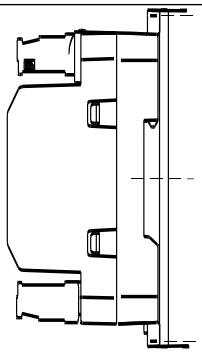


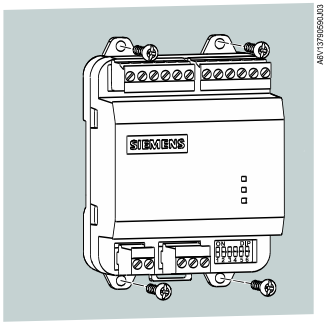


Rail specification:

- TH 35-7.5
- TH 35-15
- Per EN60715

Fixed screw mounting:



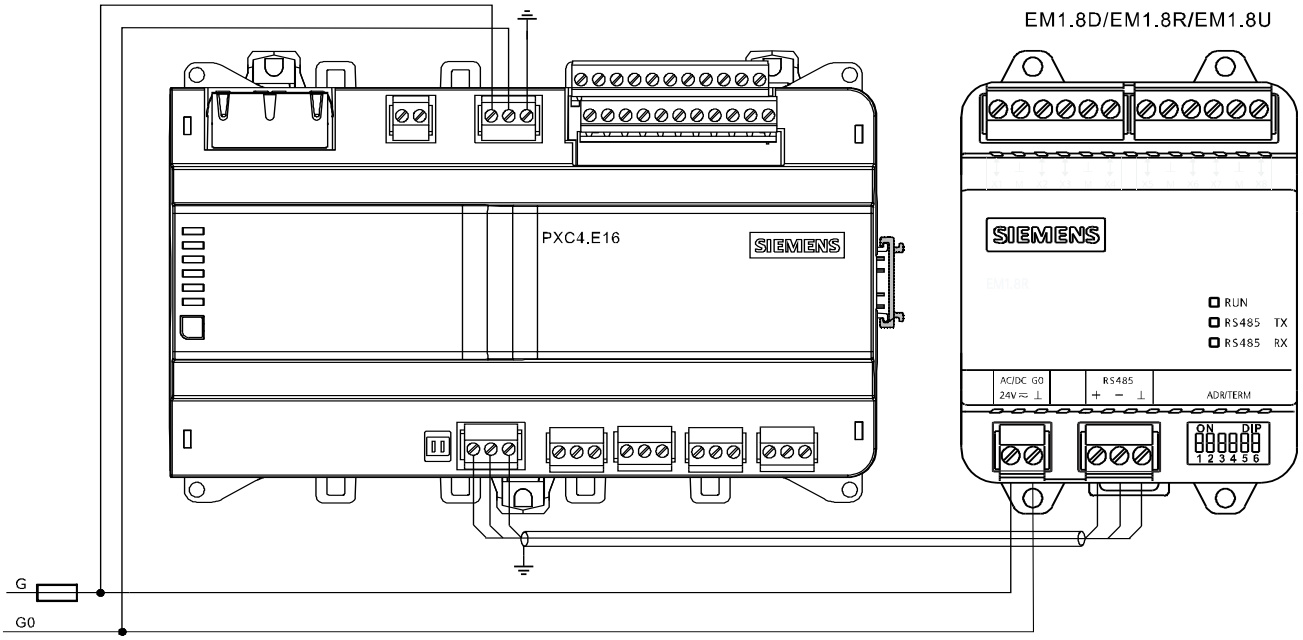


Screw specification:

- Fillister head sheet metal screw with cross top ST 4.2
- Tightening torque: 2.5 Nm

Wiring diagram

The wiring diagram may vary slightly if the connected controller is different. Following is an example of connecting the extension module to Desigo™ automation stations:

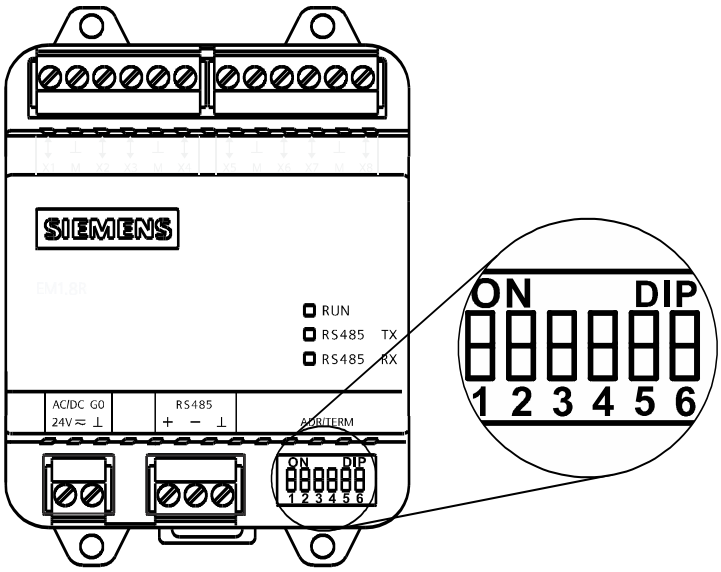


Note: See the **Technical data** section in the data sheet for information about wiring of each IO port.

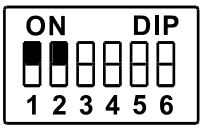
- When wiring the system, separate the high voltage from the AC 24 V safety extra low-voltage (SELV) to protect against electric shock.
- I/O extension modules are SELV devices and do not support direct connection to AC 230 V devices. The connection between the modules and any AC 230 V device must be made via an intermediate relay.
- The digital output must be connected to relays with double insulation to protect against electric shock.
- When multiple modules are connected to one power source, wrong wiring of AC/DC 24 V and M may lead to permanent damage or destruction of the modules and power supply.
- Interconnecting devices with different reference potentials may generate unnecessary current, which may lead to communication error or device damage.
- Ensure that all the communication devices have the same reference potential or are insulated to avoid unnecessary current.
- Insulation devices need to be added for network stability and protection of communication interface.
- Dynamically adjust the fuse size and power supply according to system requirements.

DIP switch settings

A 6-position DIP switch onboard is used for setting communication parameters.



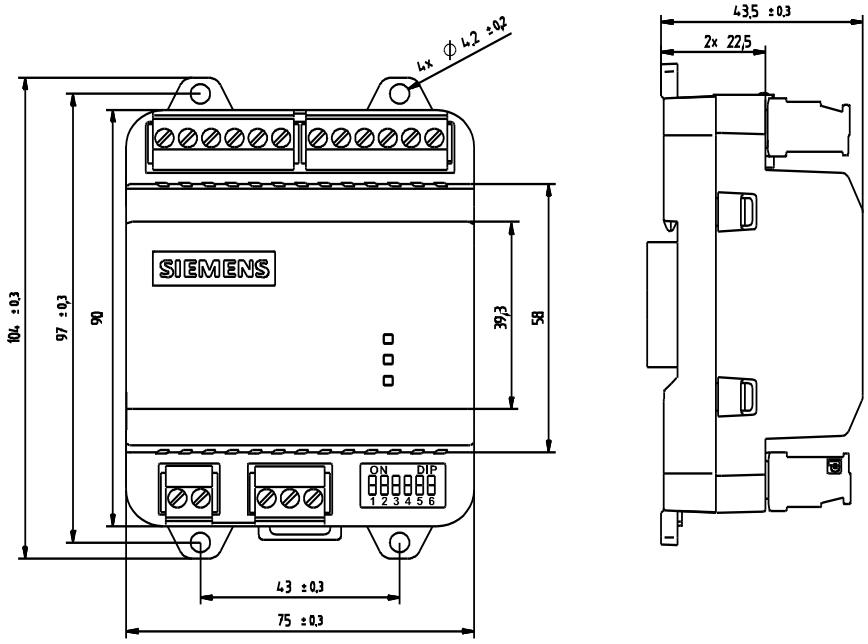
- Positions 1…5 are used to set the Modbus communication address of the device. The bit order of the five positions is 1 to 5. The lowest bit is 1 (2^0); the highest is 5 (2^4). The following example shows Modbus address “3”:



(Set the first two positions to **ON**.)

- The extension module address set by the DIP switch must match the module address configured in the commissioning and engineering tool.
- Positions 1…5 can also be used to enter automatic baud rate mode and perform factory reset. See the data sheet for more information.
- Position 6 is used for the EOL setting. EOL is done with 120 Ω + 1nF. If the extension module is a network terminal, position 6 must be **ON**.

Dimensions (in mm)



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