



Main

| | |
|------------------------------|--|
| Range of Product | Modicon M171/M172 |
| Product or Component Type | Additional I/O module |
| Product Specific Application | HVAC and pumping solution |
| Total inputs/outputs | 27 |
| Discrete input number | 8 |
| Discrete output number | 3 relay outputs SPST with same common 2 relay outputs SPST with same common 2 relay outputs SPDT with independent common |
| Discrete output current | 8 A relay SPDT 5 A relay SPST |
| Analogue input number | 2 analog input NTC 4 configurable |
| Analogue output number | 3 voltage/current 4...20 mA or 0...10 V 2 open collector 1 kHz, 12 V, 35 mA |

Complementary

| | |
|---------------------------|--|
| Number of port | 1 CAN port - screw terminal block |
| Input/output number | 6 analog input 5 analog output 8 digital input 7 digital output 1 high-speed counter |
| Discrete input logic | Sink or source (positive/negative) |
| Discrete input voltage | 24 V AC/DC 48 V DC |
| Discrete input current | 2.5 mA |
| Input impedance | 20 kOhm |
| Analogue input type | Voltage 0...5 V ratiometric) Current 4...20 mA Impedance 0...1500 hOhm Impedance 0...300 daOhm Direct input NTC temperature probe - 50...110 °C 0.1 °C extended) Voltage 0...10 V Pt 1000 temperature probe - 200...800 °C 0.1 °C NTC temperature probe - 40...150 °C 0.1 °C |
| Sensor power supply | 5 V DC 50 mA 12 V DC 150 mA |
| [Us] rated supply voltage | 24 V AC 48 V |
| Realtime clock | Without -4...131 °F (-20...55 °C) |
| Display type | Without Display |
| Overvoltage category | II |
| Mounting Support | DIN rail |
| Width | 5.51 in (140 mm) |
| Height | 4.33 in (110 mm) |
| Depth | 2.43 in (61.6 mm) |
| Net Weight | 0.42 lb(US) (0.19 kg) |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

| | |
|---------------------------------------|--|
| Directives | 86/188/EEC - physical agents (noise) directive 2006/95/EC - low voltage directive |
| Standards | EN/IEC 60730 |
| Product Certifications | CE CURus EAC CSA |
| Ambient air temperature for operation | -4...131 °F (-20...55 °C) UL 60730-1 |
| Ambient Air Temperature for Storage | -40...185 °F (-40...85 °C) |
| Relative humidity | 10...90 % non-condensing |
| IP degree of protection | IP20 |
| Pollution degree | 2 |

Ordering and shipping details

| | |
|-----------------------|--------------------------------------|
| Category | 22537 - M171 / M172 HVAC CONTROLLERS |
| Discount Schedule | PC12 |
| GTIN | 3606480752711 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 16.12 oz (457 g) |
| Returnability | No |
| Country of origin | IT |

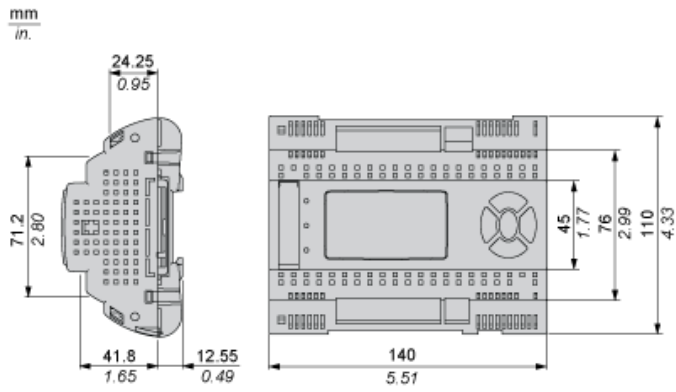
Packing Units

| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 5.12 in (13 cm) |
| Package 1 width | 3.58 in (9.1 cm) |
| Package 1 Length | 7.28 in (18.5 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 6 |
| Package 2 Weight | 6.69 lb(US) (3.036 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

Offer Sustainability

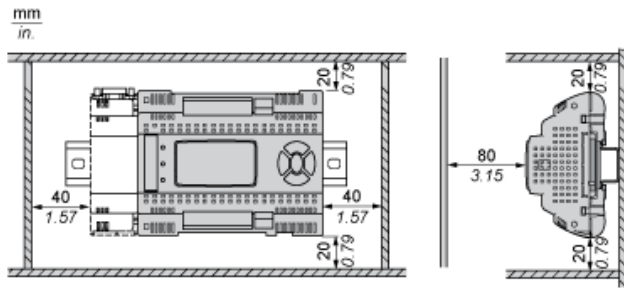
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions

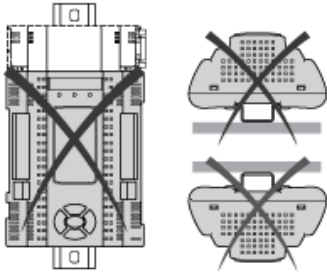


Mounting and Clearance

Clearance



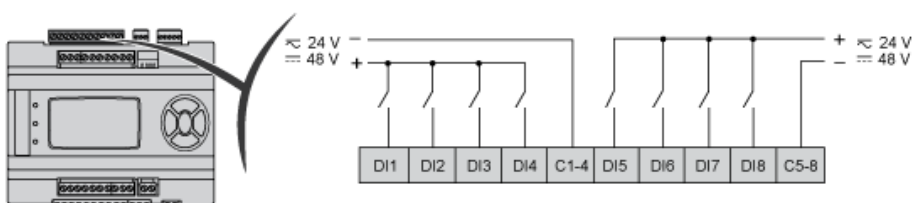
Misplacement



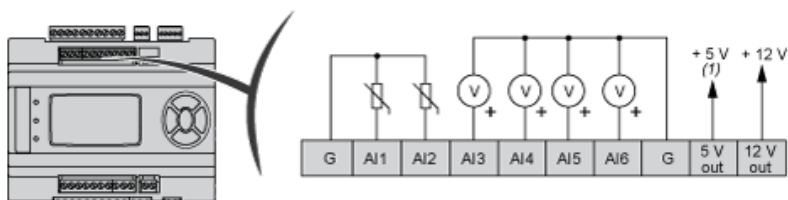
Power Supply



Digital Inputs

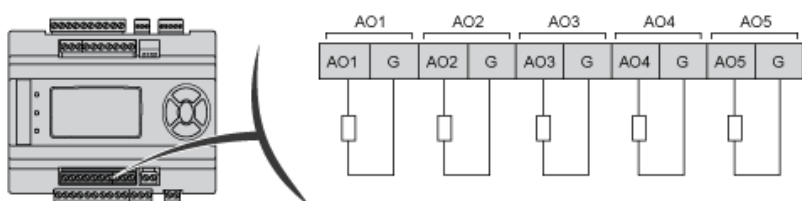


Analog Inputs

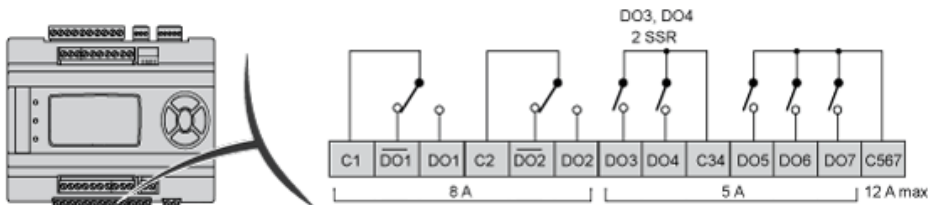


(1) Max current: 50 mA.
G : Ground

Analog Outputs

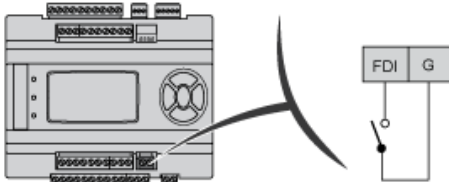


Digital Outputs

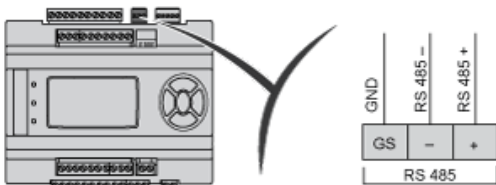


C : common

Fast Digital Input



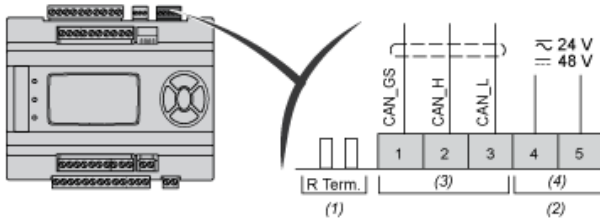
Serial Line Port (RS 485)



Apply 120 Ohm terminal resistance

GS serial GND isolated from G

CAN Expansion Bus



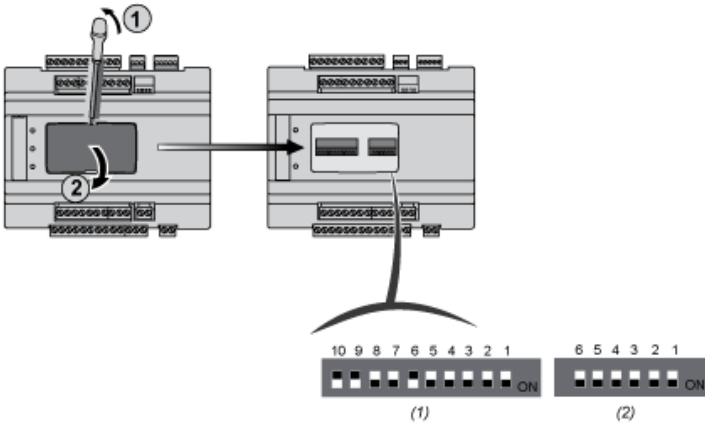
- (1) CAN terminal resistance
- (2) Output for remote keyboard
- (3) CANOPEN
- (4) Power Out

4 DipSwitches



- (1) 4 DIP SWITCH
LOW Address

6 - 10 DipSwitches



- (1) 10 DIP SWITCH
- (2) 6 DIP SWITCH