



Main

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|------------------------------|--------------------------------------------------------------------------------|
| Range of Product | Modicon M171/M172 |
| Product or Component Type | Additional I/O module |
| Product Specific Application | HVAC control |
| Total inputs/outputs | 28 |
| Discrete input number | 2 4 |
| Discrete output number | 3 relay outputs SPST with same common 2 relay outputs SPST with same common |
| Discrete output current | 3 A relay SPST |
| Analogue input number | 10 configurable by pair |
| Analogue output number | 2 programmable |

Complementary

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of port | 1 CAN port - screw terminal block |
| Input/output number | 2 analog output 6 digital input 10 analog input 10 digital output |
| Discrete input logic | 2 positive logic (sink) up to 2 kHz 4 positive logic (sink) |
| Discrete input voltage | 24 V AC/DC |
| Discrete input current | 2.5 mA AC/DC |
| Input impedance | 20 kOhm |
| Analogue input type | NTC NK103 Beta 3977 temperature probe - 40...137 °C 0.1 °C 10 kOhm at 25 °C) NTC 103AT-2 Beta 3435 temperature probe - 50...110 °C 0.1 °C 10 kOhm at 25 °C) Current 0...20 mA 1 digit < 150 Ohm Current 4...20 mA 1 digit < 150 Ohm Voltage 0...10 V 1 digit > 10 kOhm Voltage 0...5 V 1 digit > 20 kOhm absolute or ratiometric) Impedance 0...1500 hOhm 1 hOhm 10 kOhm Impedance 0...300 daOhm 1 daOhm 2 kOhm Direct input 1 digit Dry contact) PTC - 55...150 °C 0.1 °C 2 kOhm Pt 1000 temperature probe - 200...850 °C 0.1 °C 2 kOhm |
| Measurement accuracy | NTC NK103 - 40...+110 °C +/- 1 °C NTC NK103 110...137 °C +/- 1.9 °C NTC 103AT-2 - 50...110 °C +/- 1 °C PTC - 55...+135 °C +/- 1.1 °C PTC - 150...135 °C +/- 3.1 °C Pt 1000 - 200...-100 °C +/- 5 °C Pt 1000 - 100...-50 °C +/- 3 °C Pt 1000 - 50...+200 °C +/- 1.5 °C Pt 1000 200...600 °C +/- 15 °C Pt 1000 600...850 °C +/- 30 °C 0...20 mA 0...4 mA +/- 2 % of full scale +/- 1 digit 0...20 mA 4...20 mA +/- 1 % of full scale +/- 1 digit 4...20 mA +/- 1 % of full scale +/- 1 digit 0...10 V +/- 1 % of full scale +/- 1 digit 0...5 V +/- 1 % of full scale +/- 1 digit HOhm 0...700 hOhm +/- 10 hOhm HOhm 700 hOhm...1200 hOhm +/- 25 hOhm HOhm 1200 hOhm...1500 hOhm +/- 60 hOhm DaOhm 0...300 daOhm +/- 2.5 daOhm |

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.

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|---------------------------|-------------------------------------------|
| Sensor power supply | 5 V DC 50 mA 24 V DC 125 mA |
| [Us] rated supply voltage | 24 V +/- 10 % AC 20...38 V DC |
| Power consumption in W | 24 VA 24 V AC 15 W 24 V DC |
| Realtime clock | Without |
| Display type | Without Display |
| Overvoltage category | II |
| Mounting Support | DIN rail Panel mounting with accessory |
| Width | 2.83 in (72 mm) |
| Height | 4.33 in (110 mm) |
| Depth | 2.32 in (59 mm) |
| Net Weight | 0.42 lb(US) (0.19 kg) |

Environment

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|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Directives | 2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility |
| Standards | IEC 61000-4-4 EN 60068-2-27 CSA E60730-2-9 IEC 61000-4-11 CAN/CSA-E60730-1 UL 60730-2-9 EN 60730-2-9 EN 60730-1 IEC 61000-4-5 IEC 61000-4-3 EN 60068-2-6 Fc IEC 61000-4-2 |
| Product Certifications | CURus EAC CE RCM CSA |
| Ambient air temperature for operation | -4...149 °F (-20...65 °C) UL 60730-1 |
| Ambient Air Temperature for Storage | -22...158 °F (-30...70 °C) |
| Relative humidity | 5...95 % non-condensing |
| IP degree of protection | IP20 |
| Pollution degree | 2 |

Ordering and shipping details

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|-----------------------|------------------------------------|
| Category | 22537-M171 / M172 HVAC CONTROLLERS |
| Discount Schedule | PC12 |
| GTIN | 3606481267627 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 9.52 oz (270.0 g) |
| Returnability | Yes |

Packing Units

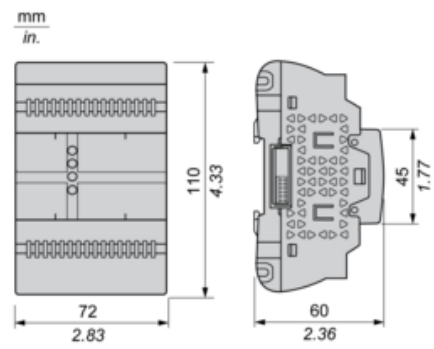
| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 3.54 in (9 cm) |
| Package 1 width | 5.00 in (12.7 cm) |
| Package 1 Length | 5.31 in (13.5 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 8 |
| Package 2 Weight | 5.45 lb(US) (2.471 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

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

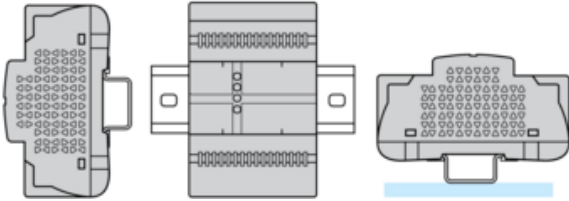
Dimensions Drawings

Dimensions

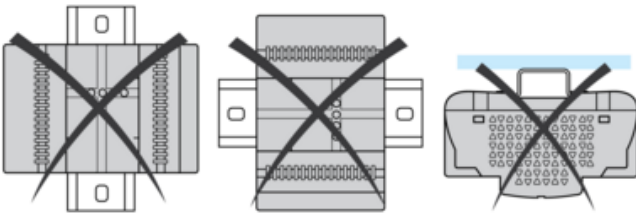


Mounting Positions

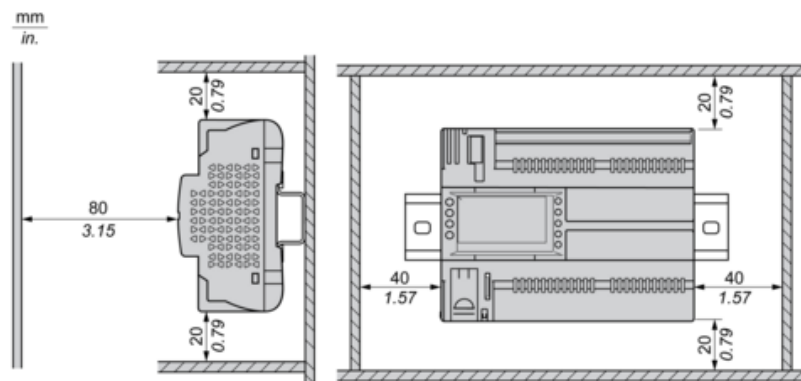
Correct Mounting Position



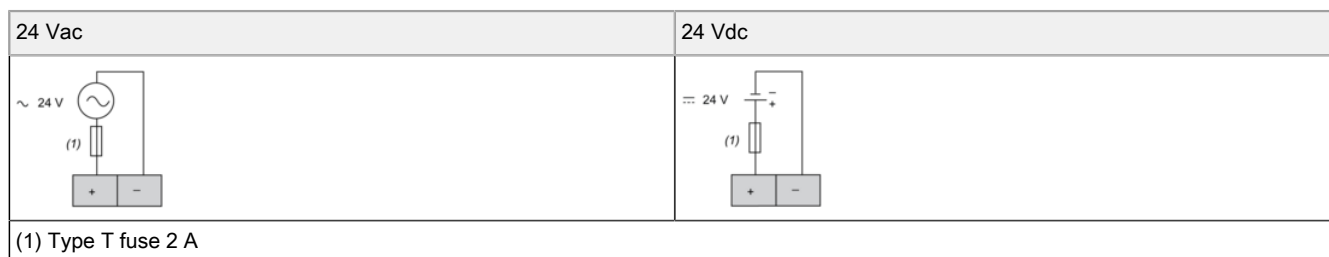
Incorrect Mounting Position



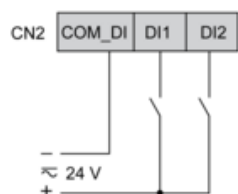
Clearance



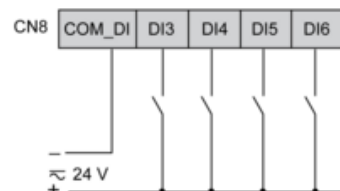
Power Supply



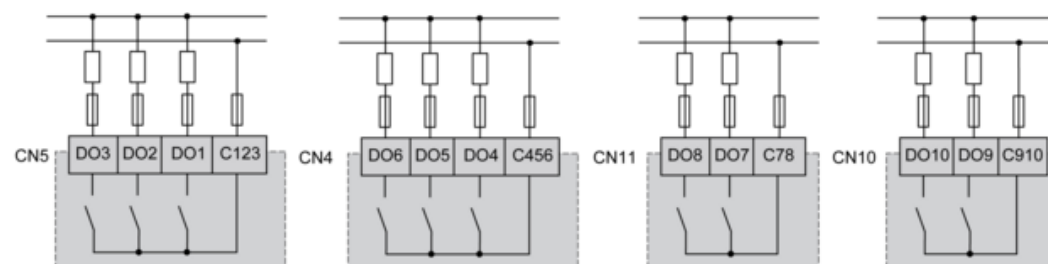
CN2 Fast Digital Inputs



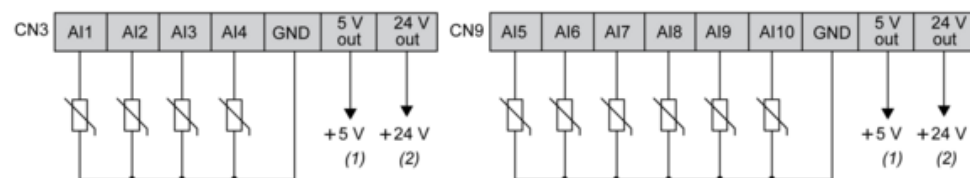
CN8 Digital Inputs



CN5, CN4, CN11, CN10 High Voltage Relay SPST Digital Output



CN3, CN9 Analog Inputs



(1) (CN3 + CN9) Max. current : 50 mA.

(2) (CN3 + CN9) Max. current : 125 mA.

CN7 Analog Outputs



AO1, AO2 can be used also as PWM generator, up to 2kHz.

CN1 CAN Expansion Bus Port

