

Main

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|---------------------------------|---|
| Range of product | Modicon Momentum automation platform |
| Product or component type | Analogue, discrete I/O base |
| Group of channels | 1 group of 2 analog outputs 1 group of 2 discrete outputs 1 group of 4 analog differential inputs 1 group of 4 discrete inputs |
| Analogue input range | +/- 10 V +/- 20 mA +/- 5 V 1...5 V 4...20 mA |
| Analogue input type | Differential |
| Analogue input resolution | 12 bits 1...5 V 12 bits 4...20 mA 13 bits +/- 20 mA 13 bits +/- 5 V 14 bits +/- 10 V |
| Discrete input voltage | 24 V DC |
| Analogue output range | +/- 10 V 12 bits 0...20 mA 12 bits |
| Discrete output voltage | <= 30 V |
| Output short-circuit protection | With discrete output |
| Output overload protection | With discrete output |

Complementary

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| Discrete input number | 4 IEC 1131-2 Type 1 |
| [Us] rated supply voltage | 24 V DC |
| Conversion consistency | +/- 0.02 % +/- 10 V analogue input circuit +/- 0.04 % +/- 20 mA analogue input circuit +/- 0.04 % +/- 5 V analogue input circuit +/- 0.04 % 1...5 V analogue input circuit +/- 0.04 % 4...20 mA analogue input circuit |
| Common mode rejection | > 54 dB analogue input circuit |
| Input voltage limits | < 30 V |
| Discrete input logic | Positive |
| Voltage state 0 guaranteed | -3...5 V discrete input |
| Voltage state 1 guaranteed | 11...30 V discrete input |
| Current state 0 guaranteed | <= 1.2 mA discrete input |
| Current state 1 guaranteed | >= 2.5 mA discrete input |
| Input overvoltage protection | -50...50 V <= 100 s analogue input circuit -30...30 V 24 V analogue input circuit |
| Input resistance | 1 MOhm analogue input circuit 4 kOhm discrete input |
| Output load | <= 600 Ohm 0...20 mA analogue output >= 3 kOhm +/- 10 V analogue output |
| Conversion time | 1 ms analogue output 10 ms analogue input circuit |
| Conversion error | +/- 0.35 % +/- 10 V 25 °C analogue output +/- 0.35 % 0...20 mA 25 °C analogue output +/- 0.70 % +/- 10 V 60 °C analogue output +/- 0.70 % 0...20 mA 60 °C analogue output 0,0008 +/- 10 V 25 °C analogue input circuit 0,0015 +/- 10 V 60 °C analogue input circuit 0,0016 +/- 20 mA 25 °C analogue input circuit 0,0016 +/- 5 V 25 °C analogue input circuit |

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|-------------------------|--|
| | 0,0016 1...5 V 25 °C analogue input circuit 0,0016 4...20 mA 25 °C analogue input circuit 0,003 +/- 20 mA 60 °C analogue input circuit 0,003 +/- 5 V 60 °C analogue input circuit 0,003 1...5 V 60 °C analogue input circuit 0,003 4...20 mA 60 °C analogue input circuit |
| Fail state | Hold analogue input circuit Reset to zero analogue input circuit |
| Discrete output type | Transistor |
| Discrete output logic | Positive |
| Discrete output current | 1 A per point 2 A per group 2 A per module |
| Leakage current | < 1 mA DC 24 V discrete output |
| Voltage drop | < 0.5 V 1 A at state on discrete output |
| Operating rate | 100 cyc/s resistive 1 A discrete output 1000 cyc/h inductive 1 A discrete output 8 cyc/s tungsten 2.4 W discrete output |
| Response time | < 0.1 ms from state 0 to state 1 discrete output < 0.1 ms from state 1 to state 0 discrete output 2.2 ms from state 0 to state 1 discrete input 3.3 ms from state 1 to state 0 discrete input |
| Isolation voltage | 500 V 1 min between analogue I/O and operating voltage 500 V 1 min between operating voltage and I/O from ground |
| Power dissipation in W | <= 6 W |
| Marking | CE |
| Local signalling | 8 LEDs channel status |
| Electrical connection | 2 connectors for removable terminal blocks |
| Current consumption | <= 350 mA 24 V DC 200 mA 24 V DC |
| Depth | 47.5 mm |
| Height | 125 mm |
| Width | 141.5 mm |
| Product weight | 0.24 kg |

Environment

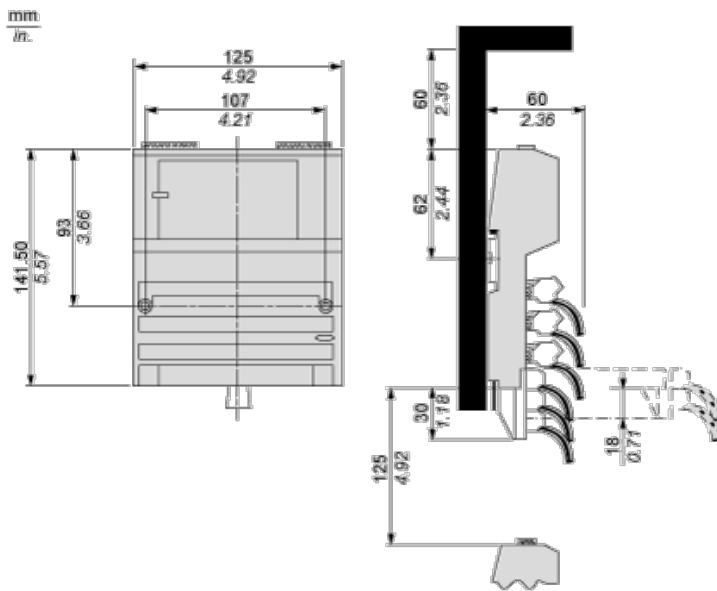
| | |
|---------------------------------------|---|
| product certifications | CSA FM Class 1 Division 2 UL |
| protective treatment | TC |
| resistance to electrostatic discharge | 4 kV contact IEC 801-2 8 kV on air IEC 801-2 |
| resistance to electromagnetic fields | 10 V/m 80...1000 MHz IEC 801-3 |
| ambient air temperature for operation | 0...60 °C |
| ambient air temperature for storage | -40...85 °C |
| relative humidity | 95 % without condensation |
| operating altitude | <= 5000 m |

Offer Sustainability

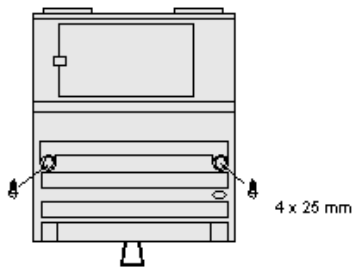
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1350 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Standard Adapter on a Typical Base

Dimensions

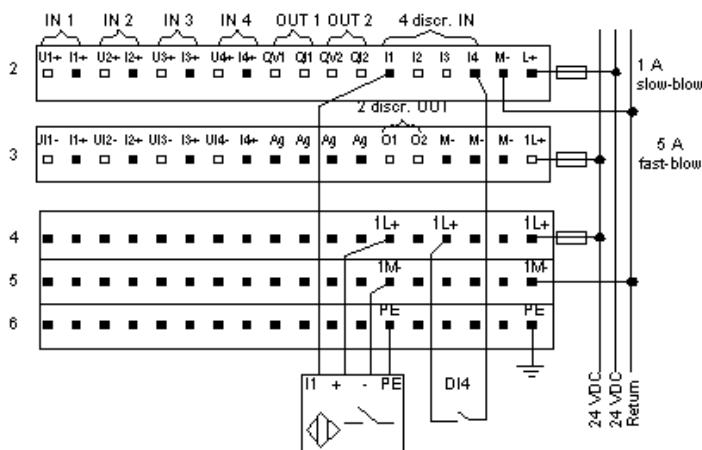


Mounting on a Wall

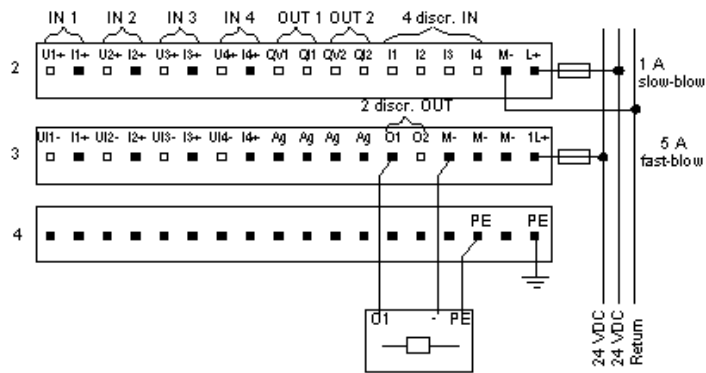


External Wiring Diagrams

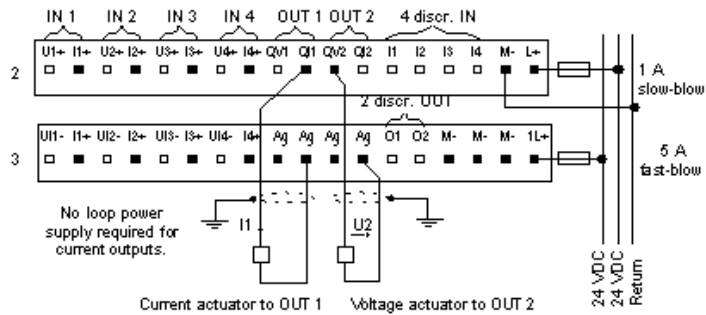
Discrete Inputs



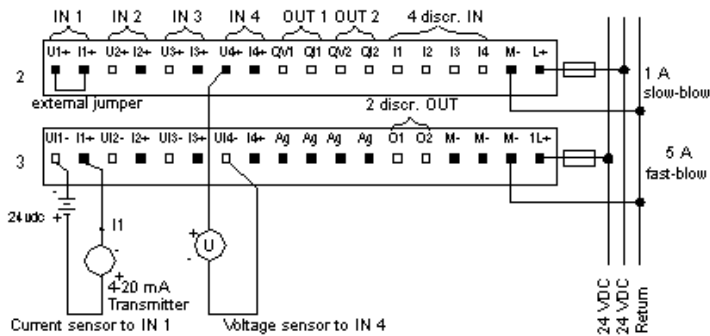
Discrete Outputs



Analog Outputs



Analog Inputs



Internal Pin Connections

Rows 1 through 3 show the internal connections between terminals on the I/O base. Rows 4 through 6 show the internal connections on the optional busbar.

