Product datasheet

Specification





distributed analog input Modicon Momentum - 8 Input

170AAI03000

Main

| Range Of Product | Modicon Momentum automation platform | |
|---------------------------|--|--|
| Product Or Component Type | Analogue input base | |
| Analogue Input Number | 8 | |
| Analogue Input Type | Differential | |
| Analogue Input Range | +/- 20 mA 14 bits + sign 250 kOhm 420 mA 15 bits + sign 250 kOhm +/- 10 V 14 bits + sign > 0.1 kOhm +/- 5 V 14 bits + sign > 0.1 kOhm 15 V 15 bits + sign > 0.1 kOhm | |

Complementary

| ull 16 bits signed /- 0.13 % full scale 25 °C 15 V /- 0.19 % full scale 60 °C 15 V /- 0.21 % full scale 25 °C +/- 5 V /- 0.26 % full scale 60 °C +/- 5 V /- 0.27 % full scale 25 °C 4-/ 10 V /- 0.27 % full scale 25 °C 420 mA /- 0.32 % full scale 25 °C +/- 10 V /- 0.38 % full scale 60 °C +/- 10 V /- 0.38 % full scale 60 °C +/- 20 mA /- 0.34 % full scale 60 °C 420 mA /- 0.35 % full scale 60 °C 420 mA |
|--|
| /- 0.19 % full scale 60 °C 15 V /- 0.21 % full scale 25 °C +/- 5 V /- 0.26 % full scale 60 °C +/- 5 V /- 0.27 % full scale 25 °C +/- 10 V /- 0.27 % full scale 25 °C +/- 20 mA /- 0.32 % full scale 25 °C +/- 20 mA /- 0.32 % full scale 60 °C +/- 10 V /- 0.38 % full scale 60 °C 420 mA |
| /- 0.21 % full scale 25 °C +/- 5 V /- 0.26 % full scale 60 °C +/- 5 V /- 0.27 % full scale 25 °C +/- 10 V /- 0.27 % full scale 25 °C 420 mA /- 0.32 % full scale 25 °C +/- 20 mA /- 0.32 % full scale 60 °C +/- 10 V /- 0.38 % full scale 60 °C 420 mA /- 0.41 % full scale 60 °C +/- 20 mA |
| /- 0.26 % full scale 60 °C +/- 5 V /- 0.27 % full scale 25 °C +/- 10 V /- 0.27 % full scale 25 °C 420 mA /- 0.32 % full scale 25 °C +/- 20 mA /- 0.32 % full scale 60 °C +/- 10 V /- 0.38 % full scale 60 °C 420 mA /- 0.41 % full scale 60 °C +/- 20 mA |
| /- 0.27 % full scale 25 °C +/- 10 V /- 0.27 % full scale 25 °C 420 mA /- 0.32 % full scale 25 °C +/- 20 mA /- 0.32 % full scale 60 °C +/- 10 V /- 0.38 % full scale 60 °C 420 mA /- 0.41 % full scale 60 °C +/- 20 mA |
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| /- 0.38 % full scale 60 °C 420 mA /- 0.41 % full scale 60 °C +/- 20 mA |
| /- 0.41 % full scale 60 °C +/- 20 mA |
| |
| 2 ms 8 |
| |
| /- 200 V DC for 1 minute |
| 00 V AC for 1 minute |
| 00 V AC for 1 minute |
| 00 V 4763 Hz DC between channels to ground |
| 50 V 4763 Hz AC between channels to ground |
| 80 dB between channels to ground |
| 382 mA DC |
| 0.428.8 V DC |
| 4 V DC |
| ternal |
| E |
| LED (green) for ready |
| LEDs for channel status |
| |
| connectors for removable terminal blocks |
| connectors for removable terminal blocks 7.5 mm |
| 0 -05 - 8 - 304 - it - E - L L |

| Width | 141.5 mm |
|------------|----------|
| Net Weight | 0.215 kg |

Environment

| Standards | EN 50081-2 IEC 1131 |
|---------------------------------------|---|
| Product Certifications | FM Class 1 Division 2 CSA UL |
| Protective Treatment | тс |
| Resistance To Electrostatic Discharge | 4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2 |
| Resistance To Electromagnetic Fields | 10 V/m 801000 MHz conforming to IEC 801-3 |
| Ambient Air Temperature For Operation | 060 °C |
| Ambient Air Temperature For Storage | -4085 °C |
| Relative Humidity | 95 % without condensation |
| Operating Altitude | <= 5000 m |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|---------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.5 cm |
| Package 1 Width | 18.0 cm |
| Package 1 Length | 26.0 cm |
| Package 1 Weight | 398.0 g |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

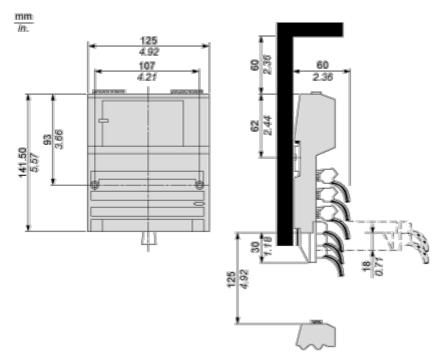
Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |

Dimensions Drawings

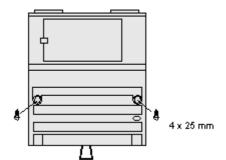
Standard Adapter on a Typical Base

Dimensions



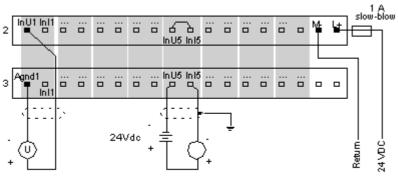
Mounting and Clearance

Mounting on a Wall



Connections and Schema

External Wiring Diagram



Examples

- * Channel1, wired for voltage input
- * Channel 5, wired for current input

Internal Pin Connections

