Product data sheet Characteristics

170AAI52040C

distributed analog input Modicon Momentum - Conformal coating - 4 Input



Main	
Range of product	Modicon Momentum automation platform
Product or component type	Analogue input base
Analogue input number	4
Analogue input type	Differential
Analogue input range	+/- 25 mV 15 bits + sign > 10000 kOhm +/- 100 mV 15 bits + sign > 10000 kOhm
Thermocouple type	Thermocouple B Thermocouple E Thermocouple J Thermocouple K Thermocouple N Thermocouple R Thermocouple S Thermocouple T

Complementary

Complementary		
Data format	Full 16 bits signed	
Temperature probe type	Pt 1000 0.125 mA +/- 100 mV	
	Pt 100 0.125 mA +/- 25 mV	
	Ni 1000 0.125 mA +/- 100 mV Ni 100 0.125 mA +/- 25 mV	
Update time	500 ms	
Isolation between channels	400 V DC	
Isolation between channels and ground	500 V AC for 1 minute	
Isolation between supply and ground	500 V for 1 minute	
Permissible common mode voltage	250 V AC single phase between channels	
	250 V AC between channels to ground	
	200 V DC between channels	
	115 V AC single or three phases between channels	
	100 V DC between channels to ground	
Common mode rejection	155 dB 60 Hz AC between channels to ground	
	145 dB 50 Hz AC between channels to ground	
	140 dB 60 Hz AC between channels	
	135 dB DC between channels to ground	
	130 dB 50 Hz AC between channels	
	120 dB DC between channels	
Serial mode rejection	45 dB 60 Hz AC	
	35 dB 50 Hz AC	
External power requirement	+/- 30 V DC	
Power dissipation in W	<= 5.5 W	
Reverse polarity protection	Internal	
Protection type	Internal 2 A slow-blow	
Associated fuse rating	500 mA fast blow	
Marking	CE	
Local signalling	4 LEDs channel status	
	32 LEDs channel status	
	16 LEDs channel status	
Electrical connection	2 connectors for removable terminal blocks	
Current consumption	305 mA 24 V DC	
Depth	47.5 mm	
Height	125 mm	
Width	141.5 mm	
Product weight	0.215 kg	

Environment

Product certifications	CSA	
	FM Class 1 Division 2	
	UL	
Protective treatment	Conformal coating Humiseal 1A33	
	TC	
Resistance to electrostatic discharge	8 kV on air IEC 801-2	
	4 kV contact IEC 801-2	
Resistance to electromagnetic fields	10 V/m 801000 MHz 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	

Offer Sustainability

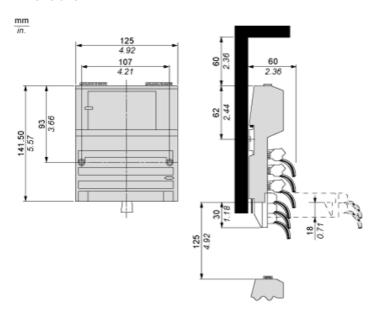
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Will be Compliant on 4Q2013



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Standard Adapter on a Typical Base

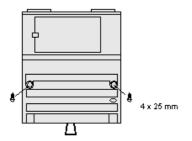
Dimensions



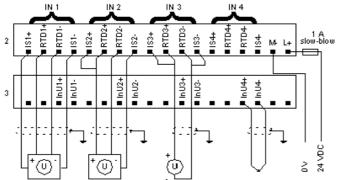
Product data sheet Mounting and Clearance

170AAI52040C

Mounting on a Wall



External Wiring Diagram



Examples

- * Channel 1,RTD input, 4 wire configuration
 * Channel 2,RTD input, 3 wire configuration
 * Channel 3,RTD input, 2 wire configuration
 * Channel 4,thermocouple input

Internal Pin Connections

