

Product data sheet

Specifications



distributed analog input Modicon Momentum - 8 Input

170AAI03000

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Momentum automation platform
Product or Component Type	Analogue input base
Analogue input number	8

Complementary

Data format	Full 16 bits signed
Absolute accuracy error	+/- 0.13 % full scale 77 °F (25 °C) 1...5 V +/- 0.19 % full scale 140 °F (60 °C) 1...5 V +/- 0.21 % full scale 77 °F (25 °C) +/- 5 V +/- 0.26 % full scale 140 °F (60 °C) +/- 5 V +/- 0.27 % full scale 77 °F (25 °C) +/- 10 V +/- 0.27 % full scale 77 °F (25 °C) 4...20 mA +/- 0.32 % full scale 77 °F (25 °C) +/- 20 mA +/- 0.32 % full scale 140 °F (60 °C) +/- 10 V +/- 0.38 % full scale 140 °F (60 °C) 4...20 mA +/- 0.41 % full scale 140 °F (60 °C) +/- 20 mA
Conversion time	12 ms 8
Permissible common mode voltage	100 V 47...63 Hz DC between channels to ground 250 V 47...63 Hz AC between channels to ground
Common mode rejection	> 80 dB between channels to ground
External power requirement	< 382 mA DC 20.4...28.8 V DC 24 V DC
Reverse polarity protection	Internal
Analogue input type	Differential +/-20 mA Differential 4...20 mA Differential +/- 10 V Differential +/- 5 V Differential 1...5 V Differential +/- 20 mA
Analogue input resolution	14 bits + sign +/- 20 mA 15 bits + sign 4...20 mA 14 bits + sign +/- 10 V 14 bits + sign +/- 5 V 15 bits + sign 1...5 V
Input impedance	250 kOhm > 0.1 kOhm
Common mode rejection	> 80 dB
Isolation between channels	+/- 200 V
Isolation between channels and bus	500 V AC
Isolation between channels and ground	500 V AC
Electrical connection	2 connectors for removable terminal blocks

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

Local signalling	1 LED green ready 8 LEDs channel status
Height	4.9 in (125 mm)
Width	5.6 in (141.5 mm)
Depth	1.9 in (47.5 mm)
Product Weight	0.474 lb(US) (0.215 kg)

Environment

Protective treatment	TC
Marking	CE
Product certifications	FM Class 1 Division 2 CSA UL
Standards	EN 50081-2 IEC 1131
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Relative humidity	0...95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	US1PC3118206
Discount Schedule	PC31
GTIN	3595861147683
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	7.087 in (18.000 cm)
Package 1 Length	10.236 in (26.000 cm)
Package weight(Lbs)	14.109 oz (400.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	9.747 lb(US) (4.421 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

 Environmental footprint	
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	441d5619-6318-4bbf-ac83-96d05888ee7e
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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

Use Longer

 Lifetime extension	
Repair	No

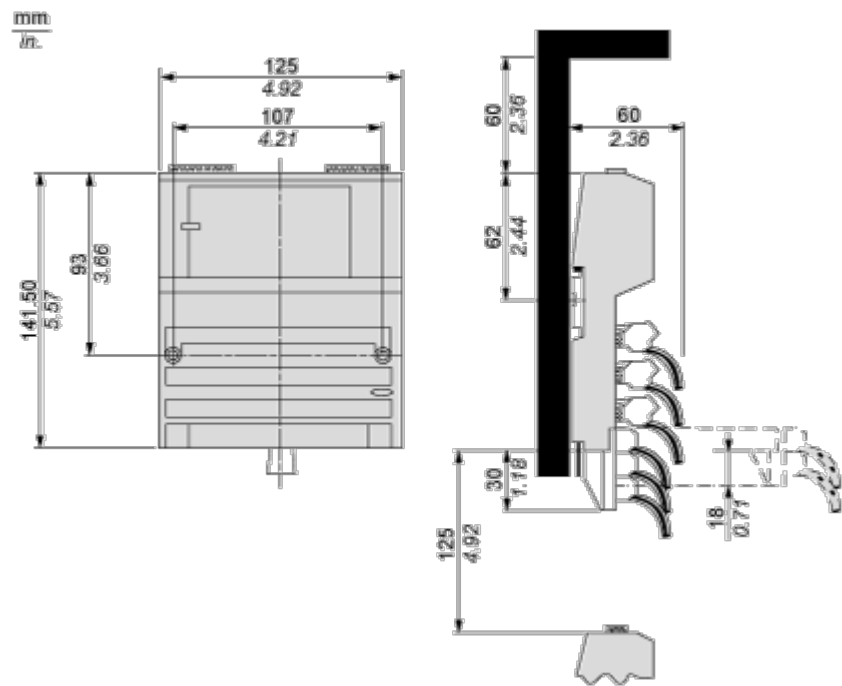
Use Again

 Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

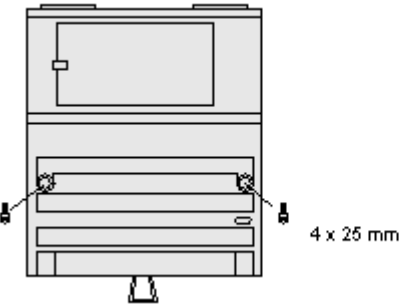
Standard Adapter on a Typical Base

Dimensions



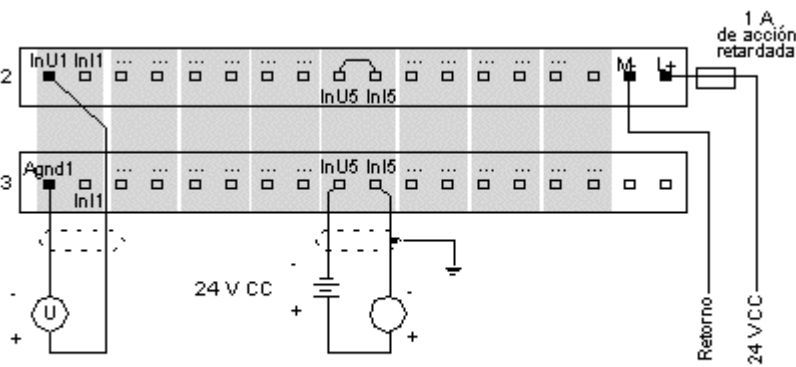
Mounting and Clearance

Mounting on a Wall



Connections and Schema

External Wiring Diagram



- Ejemplos
- * Canal 1, cableado para entrada de tensión
 - * Canal 5, cableado para entrada de corriente

Internal Pin Connections

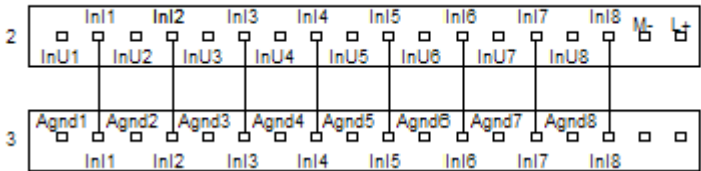


Image of product / Alternate images

Alternative

