

# 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.

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

## Environment

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

## Ordering and shipping details

<b>Category</b>	US1PC3118206
<b>Discount Schedule</b>	PC31
<b>GTIN</b>	3595861147683
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

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

## Contractual warranty

<b>Warranty (in months)</b>	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](http://www.P65Warnings.ca.gov)

## Use Longer

### Lifetime extension

Repair

No

## Use Again

### Repack and remanufacture

Circularity Profile

[End of Life Information](#)

Take-back

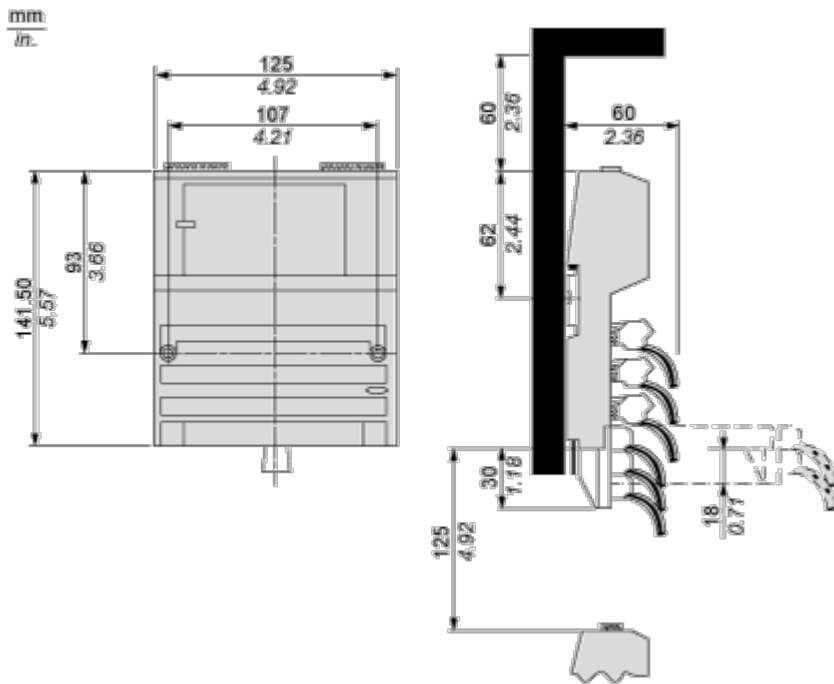
No

Dimensions Drawings

Standard Adapter on a Typical Base

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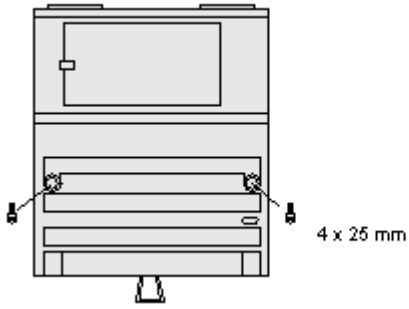
Dimensions



Mounting and Clearance

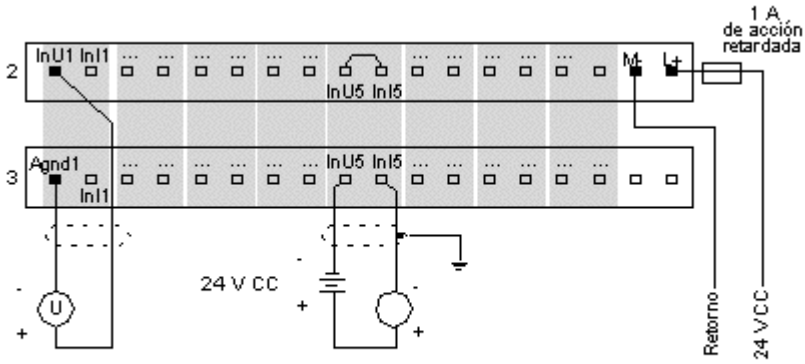
Mounting on a Wall

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Connections and Schema

External Wiring Diagram



Ejemplos

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

Internal Pin Connections

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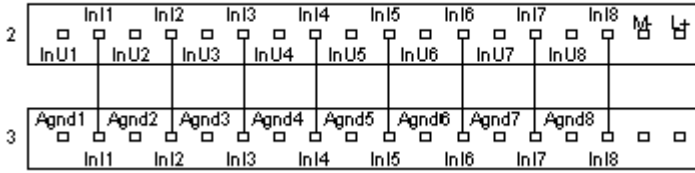


Image of product / Alternate images

Alternative

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