

Product data sheet

Specifications



distributed analog/discrete I/O - 4 I / 8 O discrete - 6 I / 4 O analog

170ANR12091

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon Momentum automation platform
Product or Component Type	Analogue,discrete I/O base
Group of channels	1 group of 8 discrete outputs 2 groups of 4 discrete inputs 1 group of 6 analog inputs 1 group of 4 analog outputs
Analogue input range	+/- 10 V DC
Analogue Input Type	Single ended
Analogue input resolution	14 bits +/- 10 V
Discrete input voltage	24 V DC
Analogue output range	+/- 10 V 14 bits
Discrete output voltage	10...30 V
Output short-circuit protection	With discrete output
Output overload protection	With discrete output

Complementary

Discrete input number	8 IEC 1131-2 Type 2
[Us] rated supply voltage	24 V 19.2...30 V)DC
Maximum analogue input voltage	15 V
Input voltage limits	3...32 V
Discrete input logic	Positive
Voltage state 0 guaranteed	<= 5 V discrete input
Voltage state 1 guaranteed	>= 11 V discrete input
Current state 0 guaranteed	<= 2 mA discrete input)
Current state 1 guaranteed	>= 6 mA discrete input)
Input overvoltage protection	45 V 10 s discrete input
Input resistance	1 MOhm analogue input circuit
Output load	>= 2 kOhm +/- 10 V analogue output
Conversion time	0.75 ms analogue input circuit 1.2 ms analogue output
Conversion error	+/- 0.4 % +/- 10 V 77 °F (25 °C) analogue output
Fail state	Analogue output hold Analogue output reset to zero
Discrete output type	Transistor

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

Discrete output logic	Positive
Discrete output current	2 A per group 2 A per module 0.25 A per point
Maximum leakage current	0.4 mA DC 30 V discrete output
Maximum voltage drop	<0.4 V 0.25 A at state on discrete output
Surge current	2.5 A 1 ms discrete output
Response time	1.05 ms from state 1 to state 0 discrete output 1.2 ms from state 0 to state 1 discrete input 1.2 ms from state 0 to state 1 discrete output 1.2 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
Maximum power dissipation in W	6 W
Marking	CE
Local signalling	8 LEDs for channel status
Electrical connection	2 connectors for removable terminal blocks
Current consumption	400 mA 24 V DC
Depth	1.9 in (47.5 mm)
Height	4.9 in (125 mm)
Width	5.6 in (141.5 mm)
Net Weight	0.53 lb(US) (0.24 kg)

Environment

Product Certifications	UL CSA
Protective treatment	TC
Resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance to electromagnetic fields	9.1 V/m (10 V/m) 80...1000 MHz IEC 801-3
Ambient Air Temperature for Operation	32...140 °F (0...60 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative Humidity	95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	US1PC3118206
Discount Schedule	PC31
GTIN	3595862053402
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.24 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	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	9.921 lb(US) (4.500 kg)

Contractual warranty

Warranty	18 months
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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

Yes

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number

441d5619-6318-4bbf-ac83-96d05888ee7e

REACH Regulation

[REACH Declaration](#)

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 Again

Repack and remanufacture

Circularity Profile

[End of Life Information](#)

Take-back

No

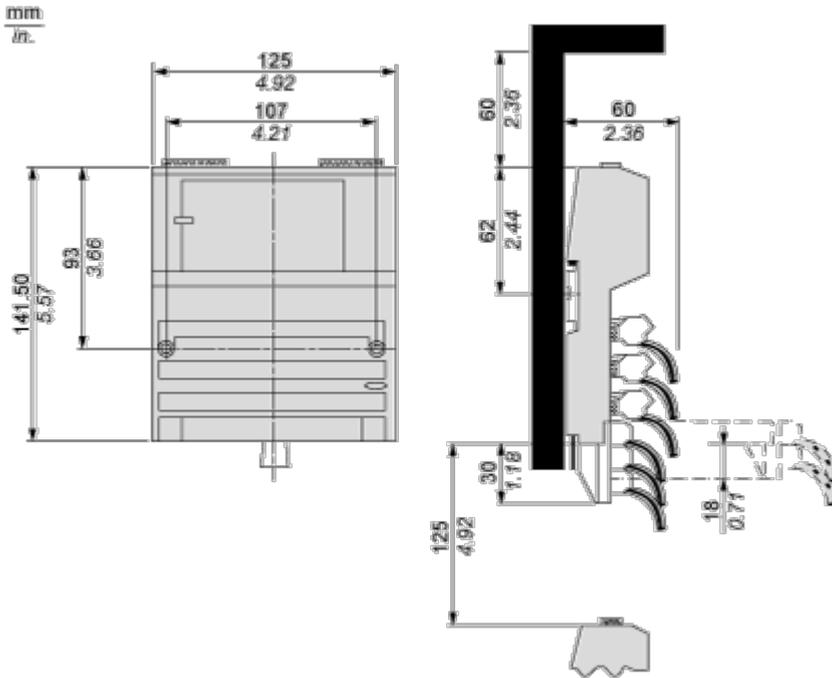
WEEE

 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

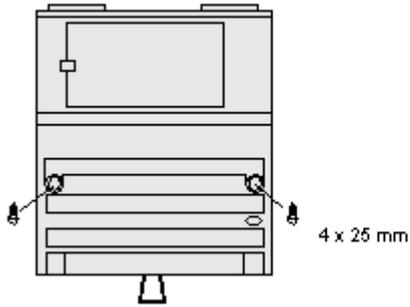
Standard Adapter on a Typical Base

Dimensions



Mounting and Clearance

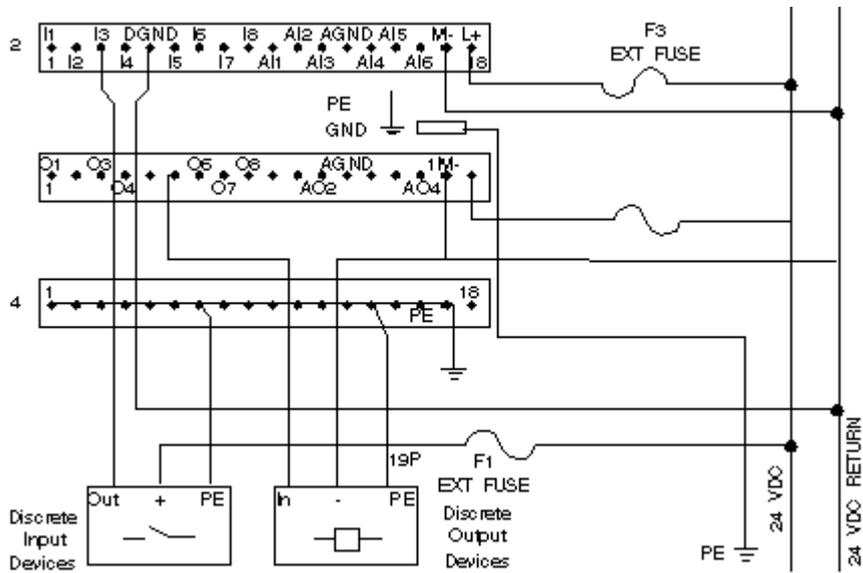
Mounting on a Wall



Connections and Schema

External Wiring Diagrams

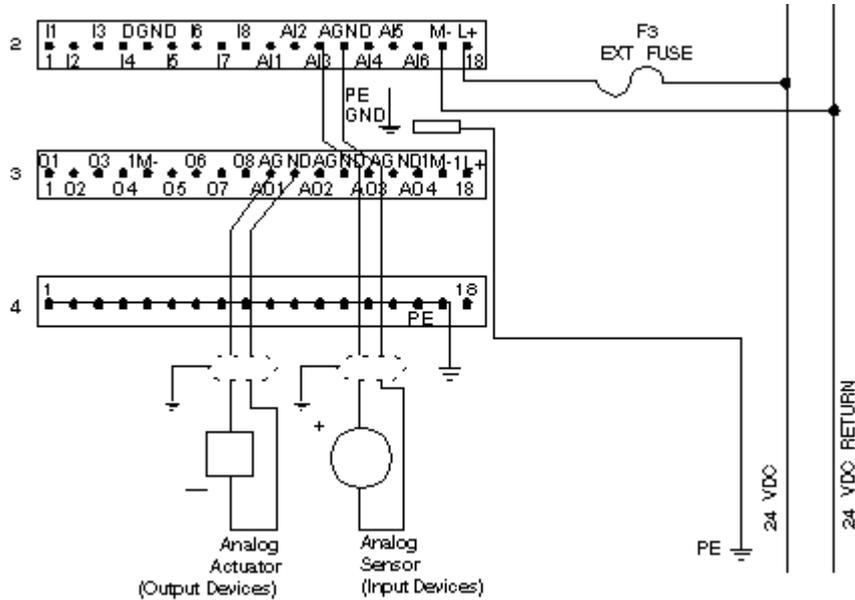
Discrete I/O Devices



F1, F3 1 A fuse

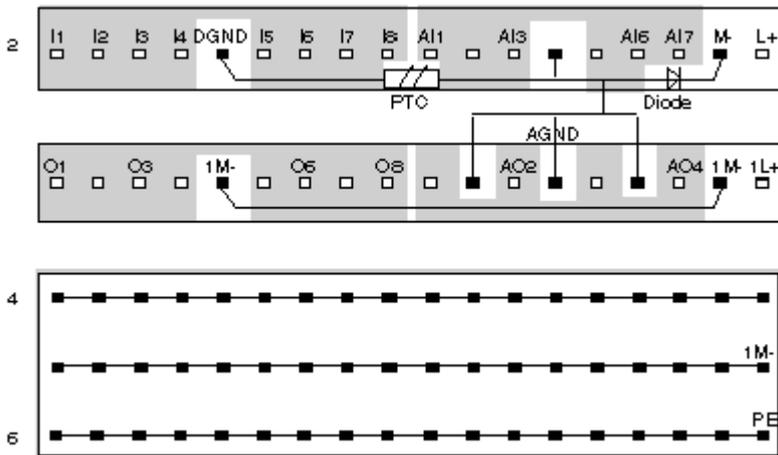
F2 2.5 A fuse

Analog I/O Devices



F3 1 A fuse

Internal Pin Connections



NOTE: AGND and DGND are connected at a single point inside the module. External digital inputs must be returned to the DGND terminal. External analog circuits must be returned to AGND terminals.

Image of product / Alternate images

Alternative

