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 output range	+/- 10 V 14 bits
Output short-circuit protection	With discrete output
Output overload protection	With discrete output
Discrete input number	8

Complementary

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 0...10 V analogue output
Conversion error	+/- 0.4 % +/- 10 V 77 °F (25 °C) analogue output
Fail state	Analogue output hold Analogue output reset to zero
Maximum voltage drop	<0.4 V 0.25 A at state on discrete output
Surge current	2.5 A 1 ms discrete output
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
Discrete input voltage	24 V DC
Discrete input logic	Positive
Voltage state 0 guaranteed	<= 5 V
Voltage state 1 guaranteed	>= 11 V
Analogue input type	Single ended +/- 10 V
Analogue input resolution	14 bits
Input voltage limits	3...32 V
Discrete output logic	Positive
Discrete output current	2 A per group 2 A per module 0.25 A per point

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

Maximum leakage current	0.4 mAdiscrete output
Conversion time	0.75 ms analog output 1.2 ms analogue input circuit
Analogue output resolution	14 bits, +/- 10 V
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
[Us] rated supply voltage	24 V DC
Local signalling	8 LEDs for channel status
Current consumption	400 mA 24 V DC
Maximum power dissipation in W	6 W
Height	4.9 in (125 mm)
Width	5.6 in (141.5 mm)
Depth	1.9 in (47.5 mm)

Environment

Protective treatment	TC
Marking	CE
Product certifications	UL CSA
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	3595862053402
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 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	9.921 lb(US) (4.500 kg)

Contractual warranty

Warranty (in months)	18

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
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

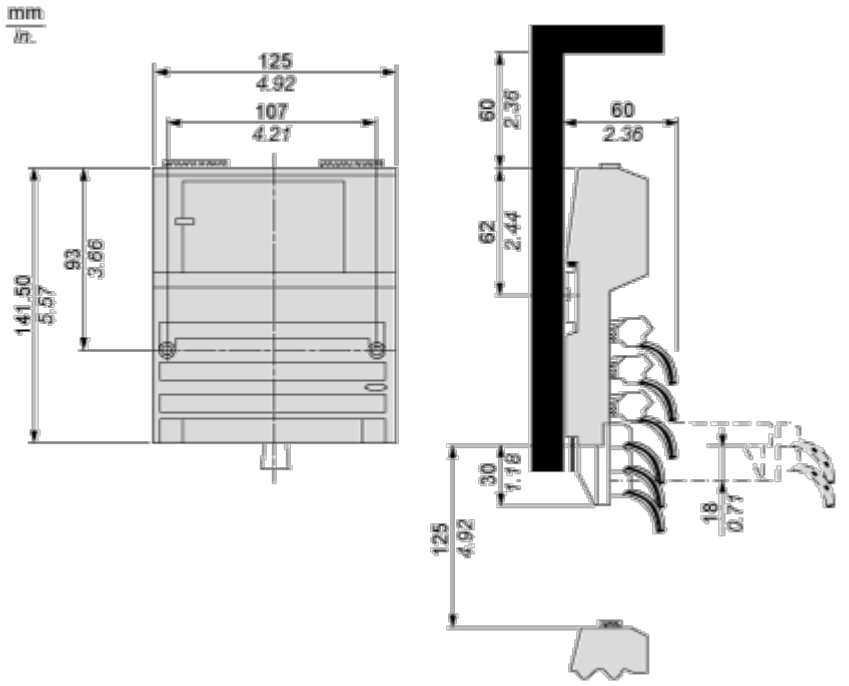
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

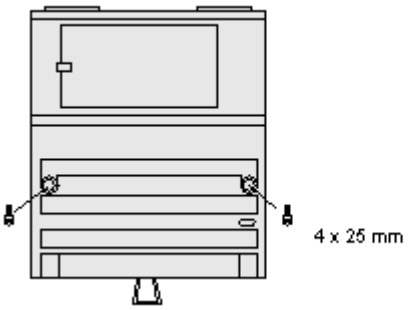
Standard Adapter on a Typical Base

Dimensions



Mounting and Clearance

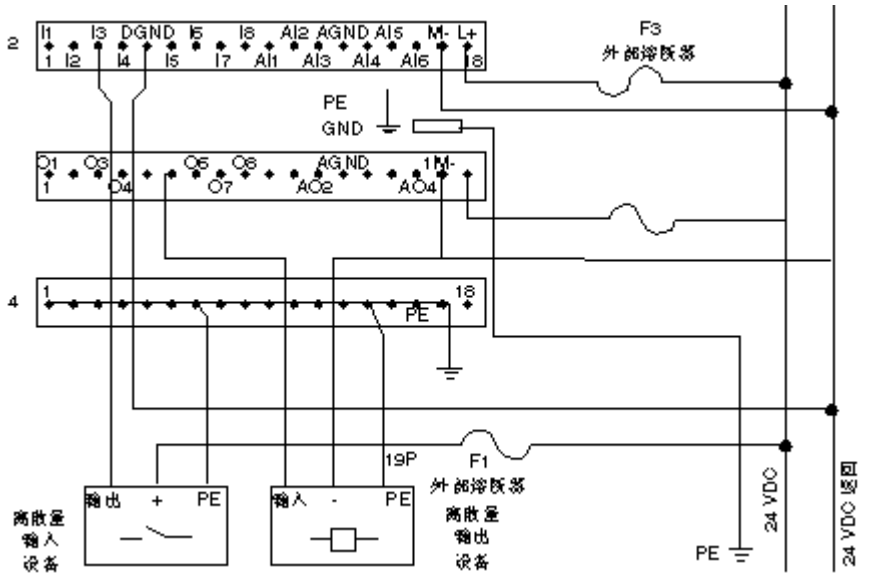
Mounting on a Wall



Connections and Schema

External Wiring Diagrams

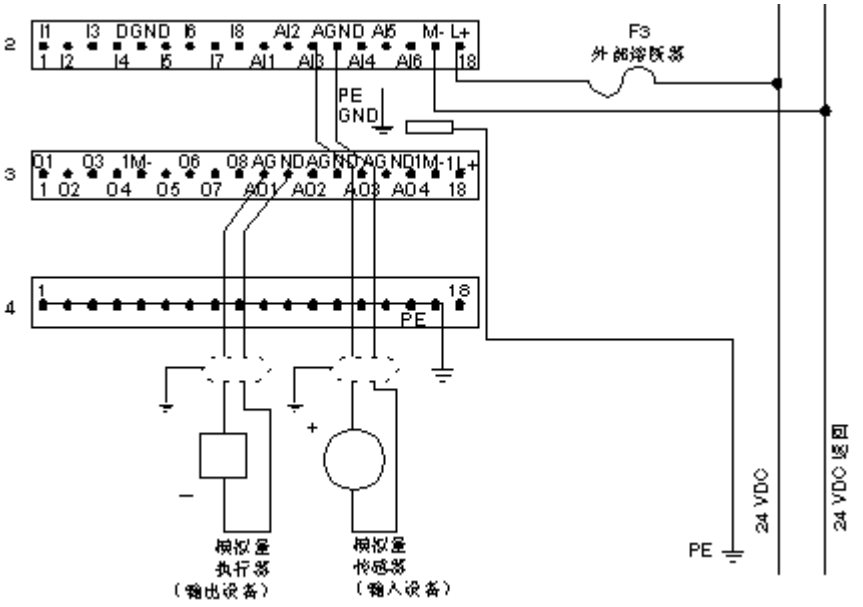
Discrete I/O Devices



F1, F3 1 A fuse

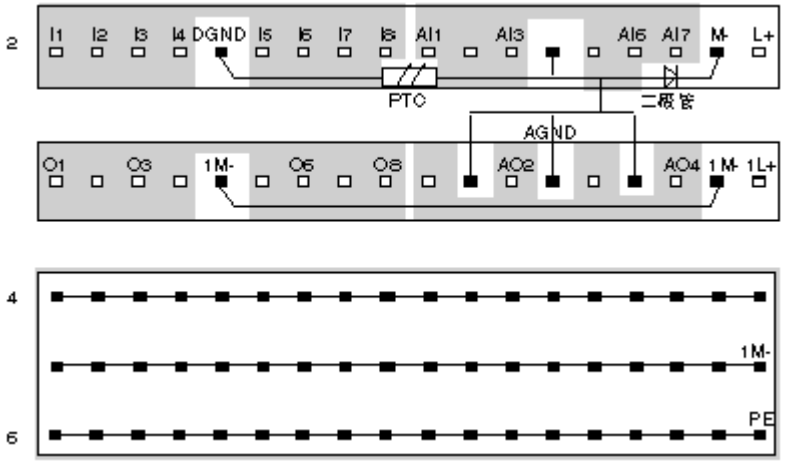
F2 2.5 A fuse

Analog I/O Devices



F3 1 A fuse

Internal Pin Connections

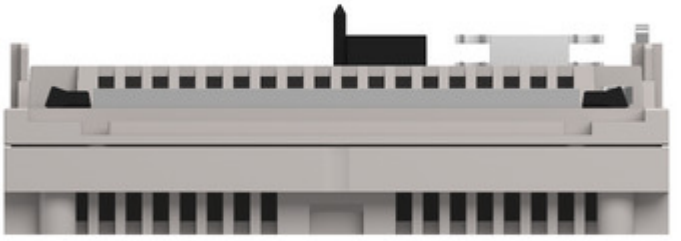


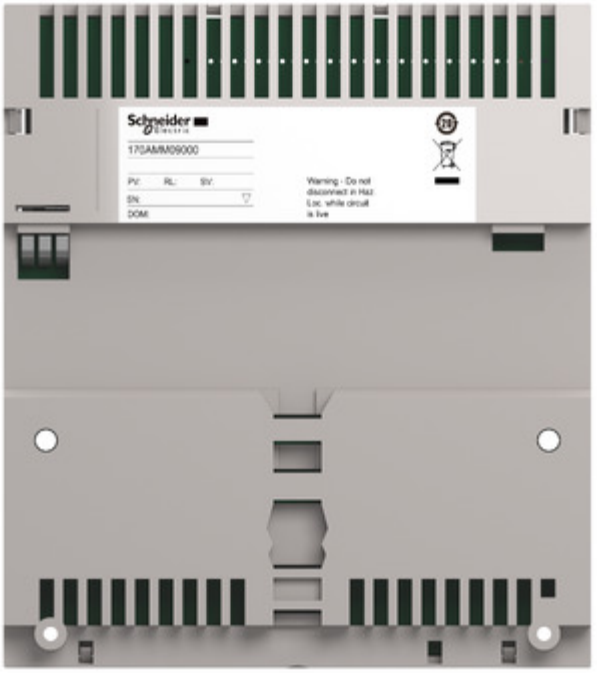
NOTE: AGND and DGND are connected at a single point inside the module. External digital inputs must be returned to the DGND terminal. External analog circuits must be returned to AGND terminals.

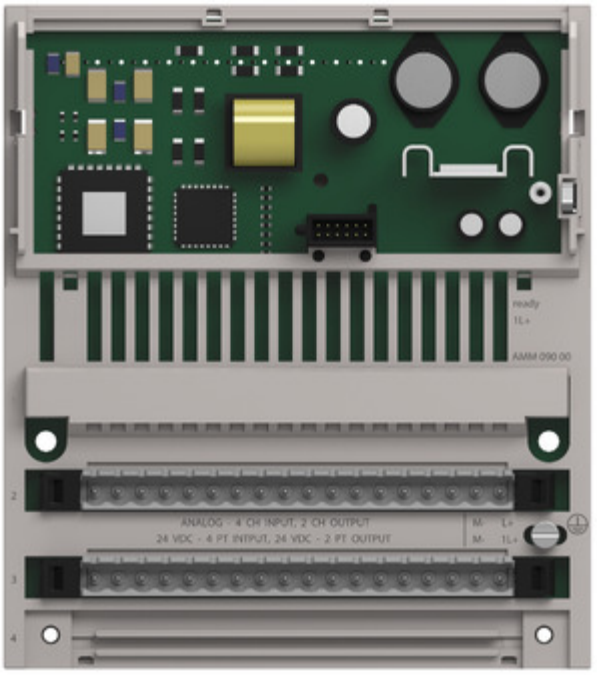
Image of product / Alternate images

Alternative






Schneider Electric
170AMM09000
Warning - Do not disconnect in Haz Loc. while circuit is live


ready
1L+
AMM 090 00
ANALOG - 4 CH INPUT, 2 CH OUTPUT
24 VDC - 4 PT INTPUT, 24 VDC - 2 PT OUTPUT
M-
L+
M-
1L+

