

Product data sheet

Specifications



discrete input module Modicon Momentum - 16 Input 100..120 V AC

170ADI54050

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Momentum automation platform
Product or Component Type	Discrete inputs base AC
Group of channels	2 groups of 8 inputs
Discrete input number	16 IEC 1131-2 Type 2
Discrete input voltage	120 V AC
Protective treatment	TC

Complementary

Discrete input logic	Positive
Input voltage limits	85...132 V
Network Frequency	47...63 Hz
Voltage range	0...132 V
Voltage state 0 guaranteed	<= 20 V
Voltage state 1 guaranteed	>= 74 V
Current state 0 guaranteed	<= 2 mA
Current state 1 guaranteed	>= 10 mA
Input resistance	7.5 kOhm 60 Hz 9.5 kOhm 50 Hz
Response time	10 ms 60 Hz from state 0 to state 1 35 ms 60 Hz from state 1 to state 0
Isolation between group	1780 V AC
Isolation between channels and bus	1780 V AC
Terminals description PLC n°1	(N)PW (5)IN_DIS#5 (13)IN_DIS#13 (15)IN_DIS#15 (12)IN_DIS#12 (10)IN_DIS#10 (14)IN_DIS#14 (11)IN_DIS#11 (9)IN_DIS#9 (7)IN_DIS#7 (L1)PW (1)IN_DIS#1 (8)IN_DIS#8 (2)IN_DIS#2 (6)IN_DIS#6 (16)IN_DIS#16 (3)IN_DIS#3 TB (4)IN_DIS#4

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

Marking	CE
Local signalling	16 LEDs for channel status
Current consumption	<= 125 mA 120 V AC
Depth	1.9 in (47.5 mm)
Height	5.6 in (141.5 mm)
Width	4.9 in (125 mm)
Net Weight	0.626 lb(US) (0.284 kg)

Environment

Product Certifications	UL FM Class 1 Division 2 CSA
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	3595861147522
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.543 in (9.000 cm)
Package 1 Width	7.087 in (18.000 cm)
Package 1 Length	10.236 in (26.000 cm)
Package weight(Lbs)	17.672 oz (501.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	6
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	6.627 lb(US) (3.006 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

No

[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](#)

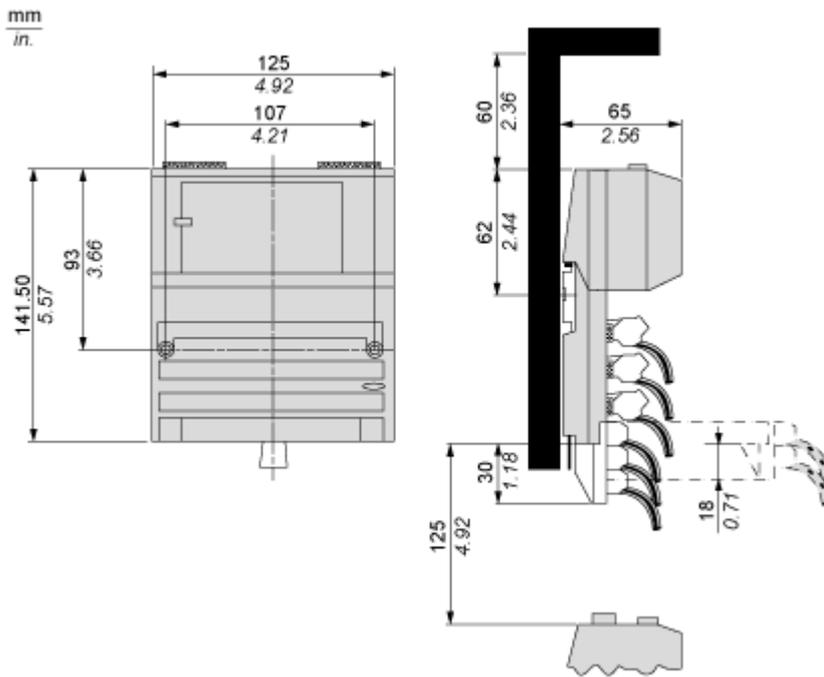
[End of Life Information](#)

Take-back

No

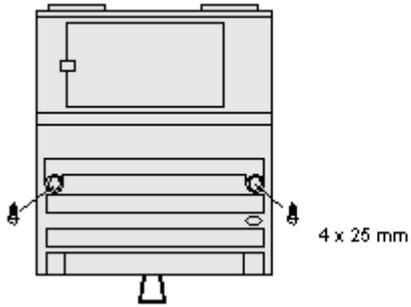
Dimensions Drawings

Standard Adapter on a Discrete VAC Base



Mounting and Clearance

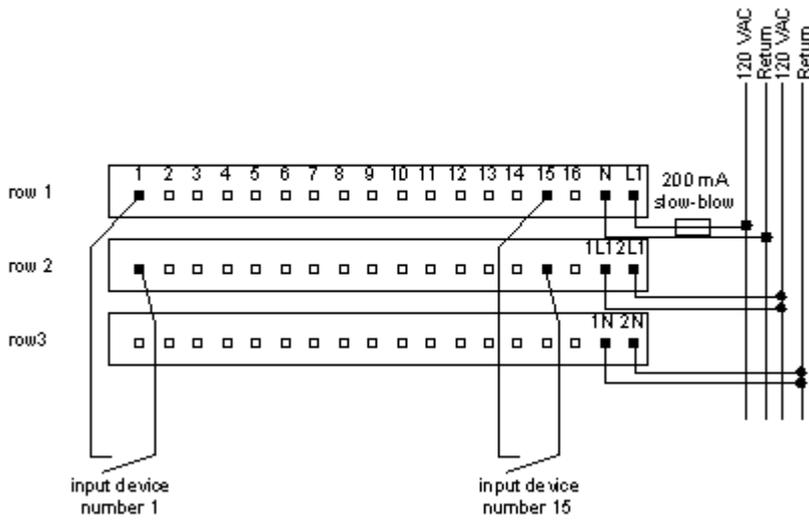
Mounting on a Wall



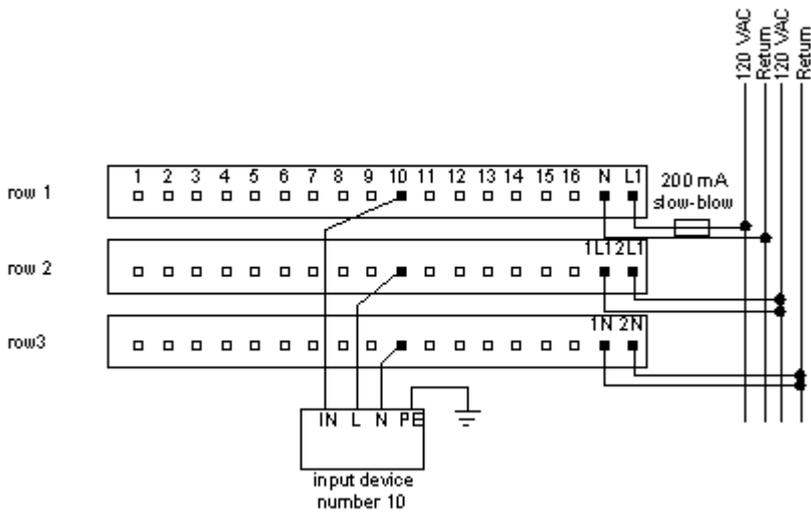
Connections and Schema

External Wiring Diagrams

2-Wire Devices



3-Wire Device



Internal Pin Connections

