Product data sheet
Characteristics

170ADM35010
discrete I/O module Modicon Momentum - 16 I/O solid state

Product availability : Stock - Normally stocked in distribution facility



Main

Range of product	Modicon Momentum automation platform
Product or component type	Discrete solid state I/O base DC
Group of channels	2 groups of 8 outputs 1 group of 16 inputs
Discrete input number	16 IEC 1131-2 Type 1
Discrete input logic	Positive
Discrete input voltage	24 V DC
Discrete output number	16
Discrete output type	Solid state switch
Discrete output voltage	<= 30 V DC 24 V DC
Discrete output logic	Positive
Protective treatment	TC

Complementary

[Us] rated supply voltage	24 V DC
Input voltage limits	- 3...30 V
Voltage state 0 guaranteed	-3...5 V
Voltage state 1 guaranteed	11...30 V
Current state 0 guaranteed	<= 1.2 mA
Current state 1 guaranteed	>= 2.5 mA
Input resistance	4 kOhm
Discrete output current	4 A per group 8 A per module 0.5 A per point
Maximum leakage current	1 mA 24 V output circuit)
Peak output current	5 A

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 voltage drop	<0.5 V 0.5 A at state 1 output circuit
Fault type	Overload on output
Response time	< 0.1 ms from state 0 to state 1 on output < 0.1 ms from state 1 to state 0 on output 2.2 ms from state 0 to state 1 on input 3.3 ms from state 1 to state 0 on input
Isolation between channels and bus	500 V AC
Power dissipation	6 W <= 8 W
Marking	CE
Terminals description PLC n°1	(L+)PW_POS (8)IN_DIS#8 (6)IN_DIS#6 (5)IN_DIS#5 TB (2)IN_DIS#2 (12)IN_DIS#12 (M-)PW_NEG (15)IN_DIS#15 (13)IN_DIS#13 (10)IN_DIS#10 (3)IN_DIS#3 (9)IN_DIS#9 (7)IN_DIS#7 (1)IN_DIS#1 (11)IN_DIS#11 (14)IN_DIS#14 (16)IN_DIS#16 (4)IN_DIS#4
Terminals description PLC n°2	(10)OUT_DIS#10 (6)OUT_DIS#6 (8)OUT_DIS#8 (1)OUT_DIS#1 (11)OUT_DIS#11 (4)OUT_DIS#4 (5)OUT_DIS#5 (15)OUT_DIS#15 (2L+)PW_POS TB_1 (7)OUT_DIS#7 (2)OUT_DIS#2 (14)OUT_DIS#14 (9)OUT_DIS#9 (13)OUT_DIS#13 (3)OUT_DIS#3 (1L+)PW_POS (12)OUT_DIS#12
Local signalling	for channel status 16 LEDs
Current consumption	250 mA 24 V DC
Depth	1.87 in (47.5 mm)
Height	5.57 in (141.5 mm)
Width	4.92 in (125 mm)
Net Weight	0.44 lb(US) (0.2 kg)

Environment

Product certifications	UL CSA
Resistance to electrostatic discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance to electromagnetic fields	9.14 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	18206 - MOMENTUM PROCESSORS,I/O BASES,CONN.
Discount Schedule	PC31
GTIN	00785901307969
Nbr. of units in pkg.	1
Package weight(Lbs)	0.87 lb(US) (0.39 kg)
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.28 in (5.8 cm)
Package 1 width	7.09 in (18 cm)
Package 1 Length	10.16 in (25.8 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Weight	9.72 lb(US) (4.407 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

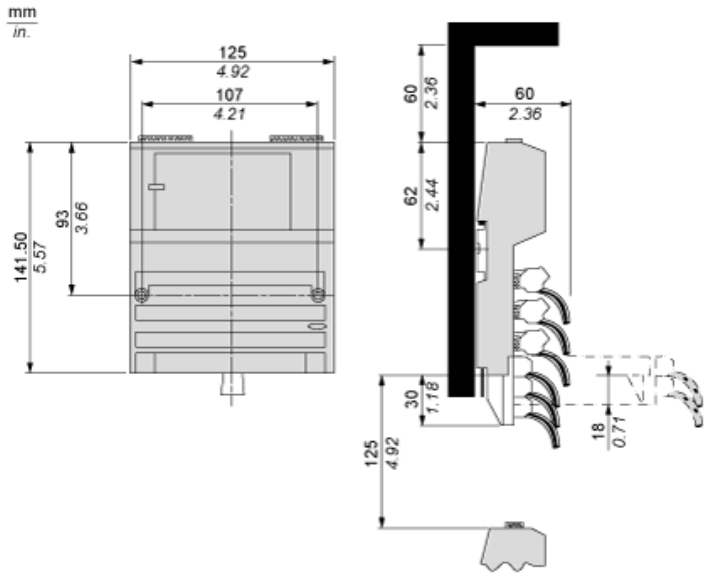
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

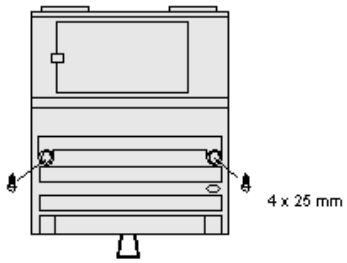
Warranty	18 months

Standard Adapter on a Typical Base

Dimensions

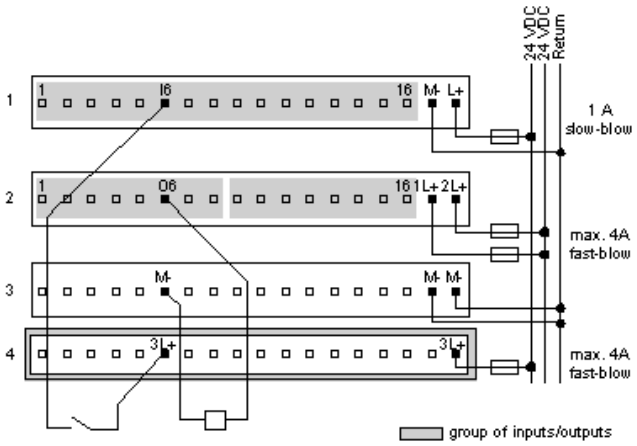


Mounting on a Wall

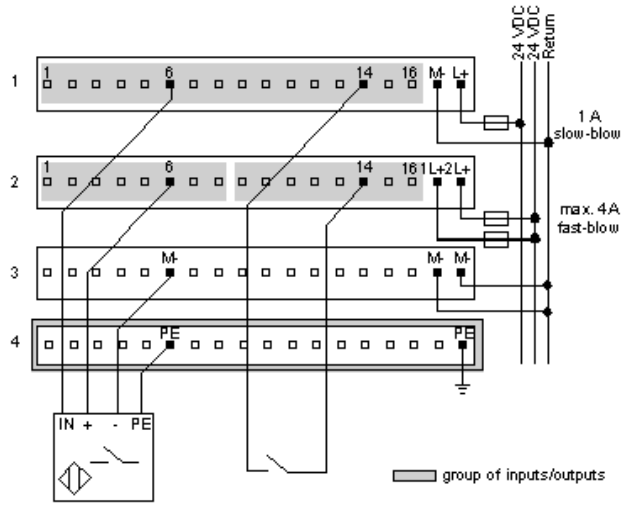


External Wiring Diagrams

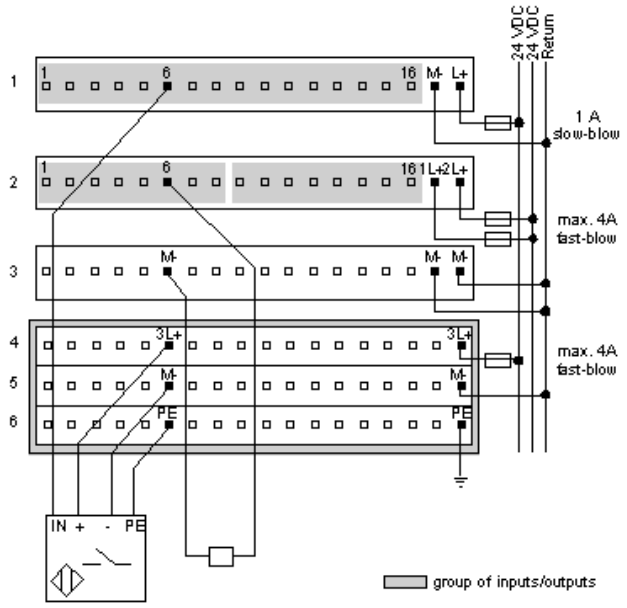
2-Wire Devices



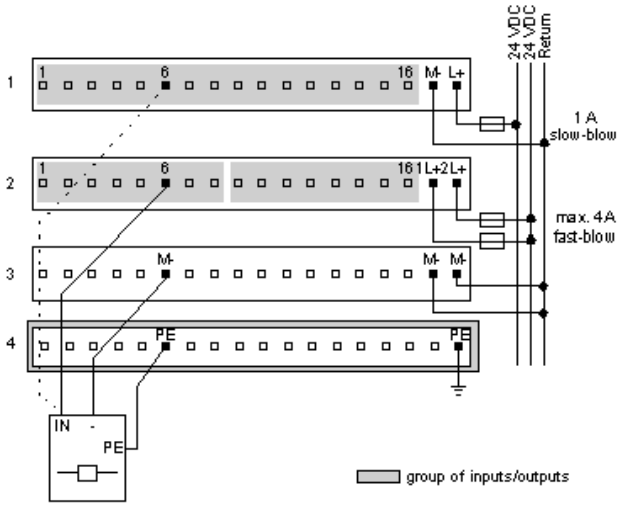
Sensor Activated by Output



Four-Wire Sensor with a Two-Wire Actuator



Broken Wire Detection



Internal Pin Connections

Rows 1 through 3 show the internal connections between terminals on the I/O base. Rows 4 through 6 show the internal connections on the optional busbar.

