



Main

Range of product	Modicon Momentum automation platform
Product or component type	Analogue,discrete I/O base
Group of channels	1 group of 2 discrete outputs 1 group of 4 discrete inputs 1 group of 4 analog differential inputs 1 group of 2 analog outputs
Analogue input range	+/- 10 V +/- 20 mA +/- 5 V 1...5 V 4...20 mA
Analogue input type	Differential
Analogue input resolution	12 bits 1...5 V 12 bits 4...20 mA 13 bits +/- 20 mA 13 bits +/- 5 V 14 bits +/- 10 V
Discrete input voltage	24 V DC
Analogue output range	+/- 10 V 12 bits 0...20 mA 12 bits
Discrete output voltage	<= 30 V
Output short-circuit protection	With discrete output
Output overload protection	With discrete output

Complementary

Discrete input number	4 conforming to IEC 1131-2 Type 1
[Us] rated supply voltage	24 VDC
Conversion consistency	+/- 0.02 % +/- 10 V analogue input circuit +/- 0.04 % +/- 20 mA analogue input circuit +/- 0.04 % +/- 5 V analogue input circuit +/- 0.04 % 1...5 V analogue input circuit +/- 0.04 % 4...20 mA analogue input circuit
Common mode rejection	> 54 dB analogue input circuit
Input voltage limits	< 30 V
Discrete input logic	Positive
Voltage state 0 guaranteed	-3...5 V for discrete input
Voltage state 1 guaranteed	11...30 V for discrete input
Current state 0 guaranteed	<= 1.2 mA (discrete input)
Current state 1 guaranteed	>= 2.5 mA (discrete input)
Input overvoltage protection	-50...50 V <= 100 s analogue input circuit -30...30 V 24 V analogue input circuit
Input resistance	1 MOhm analogue input circuit 4 kOhm discrete input
Output load	<= 600 Ohm 0...20 mA analogue output >= 3 kOhm +/- 10 V analogue output
Conversion time	1 Ms analogue output 10 ms analogue input circuit

Conversion error	+/- 0.35 % +/- 10 V 25 °C analogue output +/- 0.35 % 0...20 mA 25 °C analogue output +/- 0.70 % +/- 10 V 60 °C analogue output +/- 0.70 % 0...20 mA 60 °C analogue output 0,0008 +/- 10 V 25 °C analogue input circuit 0,0015 +/- 10 V 60 °C analogue input circuit 0,0016 +/- 20 mA 25 °C analogue input circuit 0,0016 +/- 5 V 25 °C analogue input circuit 0,0016 1...5 V 25 °C analogue input circuit 0,0016 4...20 mA 25 °C analogue input circuit 0,003 +/- 20 mA 60 °C analogue input circuit 0,003 +/- 5 V 60 °C analogue input circuit 0,003 1...5 V 60 °C analogue input circuit 0,003 4...20 mA 60 °C analogue input circuit
Fail state	For analogue input circuit: hold For analogue input circuit: reset to zero
Discrete output type	Transistor
Discrete output logic	Positive
Discrete output current	1 A per point 2 A per group 2 A per module
Maximum leakage current	1 mA DC 24 V discrete output
Maximum voltage drop	<0.5 V 1 A at state on discrete output
Operating rate	100 cyc/s resistive 1 A discrete output 1000 cyc/h inductive 1 A discrete output 8 cyc/s tungsten <2.4 W discrete output
Response time	< 0.1 ms from state 0 to state 1 for discrete output < 0.1 ms from state 1 to state 0 for discrete output 2.2 ms from state 0 to state 1 for discrete input 3.3 ms from state 1 to state 0 for discrete input
Isolation voltage	500 V (duration = 1 min) between analogue I/O and operating voltage 500 V (duration = 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	<= 350 mA at 24 V DC 200 mA at 24 V DC
Depth	47.5 mm
Height	125 mm
Width	141.5 mm
Net weight	0.24 kg

Environment

Product certifications	UL CSA FM Class 1 Division 2
Protective treatment	TC
Resistance to electrostatic discharge	4 KV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...1000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m

Packing Units

Package 1 Weight	0.392 kg
Package 1 Height	55.000 mm
Package 1 width	180.000 mm
Package 1 Length	260.000 mm

Offer Sustainability

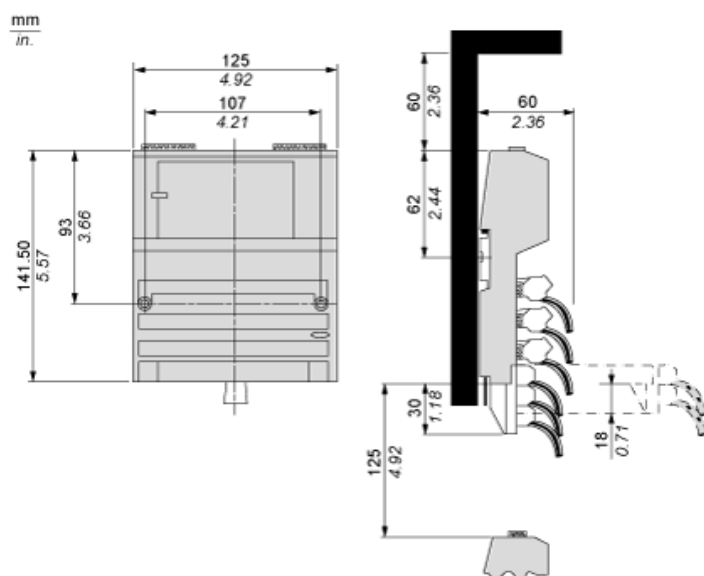
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product 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

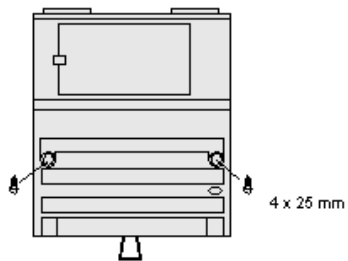
Warranty	18 months
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Standard Adapter on a Typical Base

Dimensions

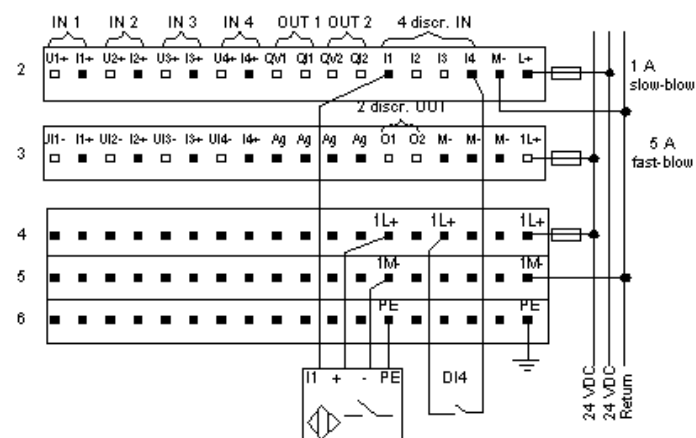


Mounting on a Wall

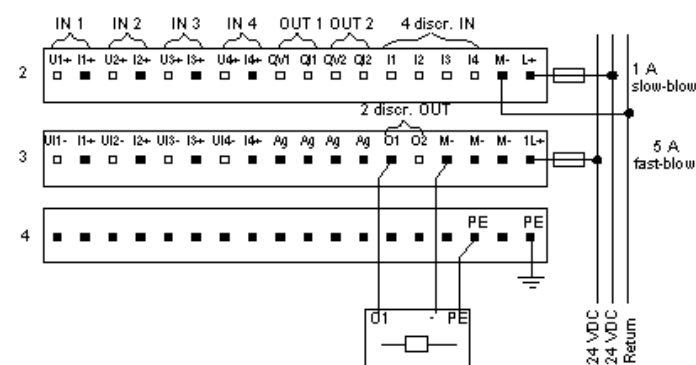


External Wiring Diagrams

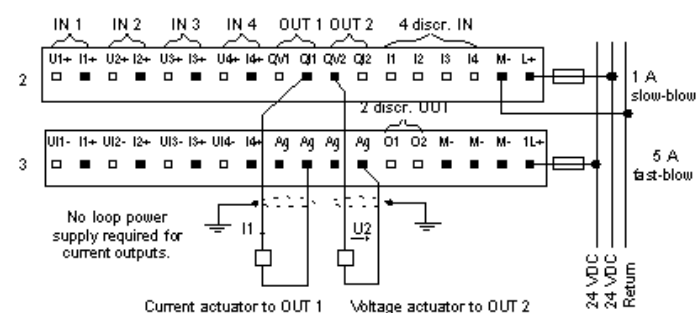
Discrete Inputs



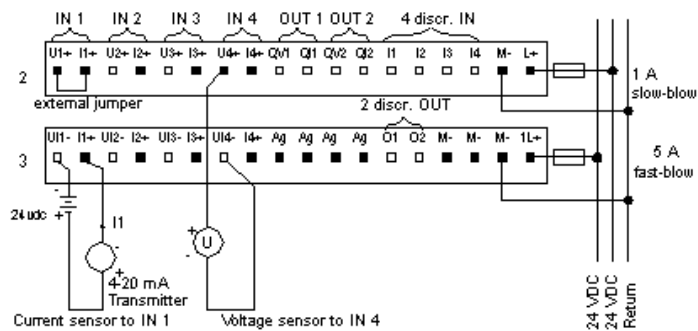
Discrete Outputs



Analog Outputs



Analog Inputs



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.

