



Main

Range of product	Modicon Momentum automation platform
Product or component type	Analogue, discrete I/O base
Group of channels	1 group of 2 analog outputs 1 group of 4 discrete inputs 1 group of 4 analog differential inputs 1 group of 2 discrete 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	12 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 IEC 1131-2 Type 1
[Us] rated supply voltage	12 V DC
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	80 dB analogue input circuit
Overvoltage current on input	<= 48 mA analogue input circuit
Discrete input logic	Positive
Voltage state 0 guaranteed	-1.5...2.5 V discrete input
Voltage state 1 guaranteed	7.5...15 V 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 12 V analogue input circuit
Input resistance	2.1 kOhm discrete input 250 Ohm analogue input circuit
Output load	<= 600 kOhm 0...20 mA analogue output >= 3 Ohm +/- 10 V analogue output
Conversion time	1 ms analogue output 10 ms analogue input circuit
Conversion error	0,0008 +/- 10 V 77 °F (25 °C) analogue input circuit 0,0015 +/- 10 V 140 °F (60 °C) analogue input circuit 0,0016 +/- 20 mA 77 °F (25 °C) analogue input circuit 0,0016 +/- 5 V 77 °F (25 °C) analogue input circuit 0,0016 1...5 V 77 °F (25 °C) analogue input circuit 0,0016 4...20 mA 77 °F (25 °C) analogue input circuit 0,003 +/- 20 mA 140 °F (60 °C) analogue input circuit 0,003 +/- 5 V 140 °F (60 °C) analogue input circuit 0,003 1...5 V 140 °F (60 °C) analogue input circuit 0,003 4...20 mA 140 °F (60 °C) analogue input circuit +/- 0.35 % +/- 10 V 77 °F (25 °C) analogue output +/- 0.35 % 0...20 mA 77 °F (25 °C) analogue output +/- 0.70 % +/- 10 V 140 °F (60 °C) analogue output +/- 0.70 % 0...20 mA 140 °F (60 °C) analogue output
Fail state	Hold analogue input circuit Reset to zero analogue input circuit
Discrete output type	Transistor
Discrete output logic	Positive
Discrete output current	1 A per point 2 A per group 2 A per module
Leakage current	< 1 mA DC 12 V discrete output
Voltage drop	< 0.5 V 0.5 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 discrete output < 0.1 ms from state 1 to state 0 discrete output 2.2 ms from state 0 to state 1 discrete input 3.3 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
Power dissipation in W	<= 6 W
Marking	CE
Local signalling	16 LEDs channel status
Electrical connection	2 connectors for removable terminal blocks
Current consumption	700 mA 12 V DC
Depth	1.87 in (47.5 mm)
Height	4.92 in (125 mm)
Width	5.57 in (141.5 mm)
Product 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	9.14 V/yd (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)

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available End of Life Information

Contractual warranty

Warranty period	18 months
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