

Product datasheet

Specifications



Modicon Momentum - high speed counter module base - 6 I / 4 O

170AEC92000

Price: 21,908.31 ZAR

Main

Range Of Product	Modicon Momentum automation platform
Product Or Component Type	High speed counter module base
Group Of Channels	2 groups of 3 discrete inputs 2 groups of 2 discrete outputs
Number Of Counter	2
Discrete Input Number	6
Discrete Output Number	4

Complementary

Discrete Input Logic	Positive
Discrete Input Voltage	- 3...30 V DC 24 V DC
Input Overvoltage Protection	45 V 10 s
Voltage State 1 Guaranteed	>= 11 V
Voltage State 0 Guaranteed	<= 5 V
Current State 1 Guaranteed	>= 2.5 mA
Current State 0 Guaranteed	<= 1.2 mA
Discrete Output Logic	Positive
Discrete Output Voltage	24 V
Discrete Output Current	1 A per counter 2 A per module 0.5 A per point
Maximum Voltage Drop	<0.5 V 0.5 A at state on
Maximum Leakage Current	1 mA DC 24 V
Surge Current	5 A 1 ms
Response Time	< 0.1 ms from state 0 to state 1 output circuit < 0.1 ms from state 1 to state 0 output circuit 3 ms from state 0 to state 1 input circuit 3 ms from state 1 to state 0 input circuit
Counting Input Type	Absolute SSI up, down with 4 sub-modes Incremental up, down, quadrature
Counting Input Voltage	24 V single ended 5 V differential
Counting Frequency	10 kHz single ended 200 kHz differential
Counter Inputs Resolution	24 bits + sign

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Counter Configuration	Via comm adapter
Marking	CE
Electrical Connection	2 connectors for removable terminal blocks
Current Consumption	280 mA at 24 V DC
Net Weight	0.21 kg

Environment

Product Certifications	UL CSA
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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.800 cm
Package 1 Width	18.000 cm
Package 1 Length	26.200 cm
Package 1 Weight	356.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.336 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓

Mercury Free

✓

Rohs Exemption Information

Yes

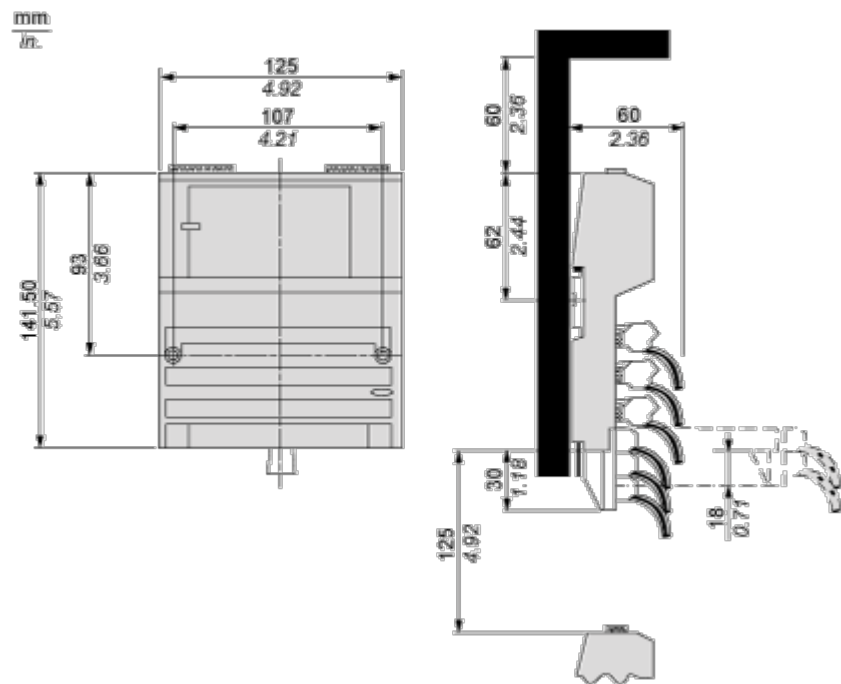
Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

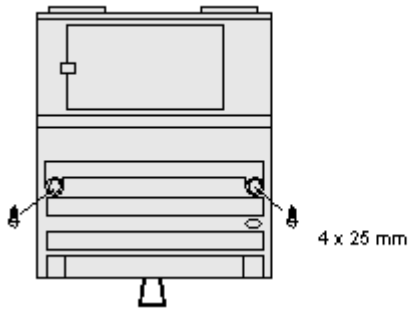
Standard Adapter on a Typical Base

Dimensions



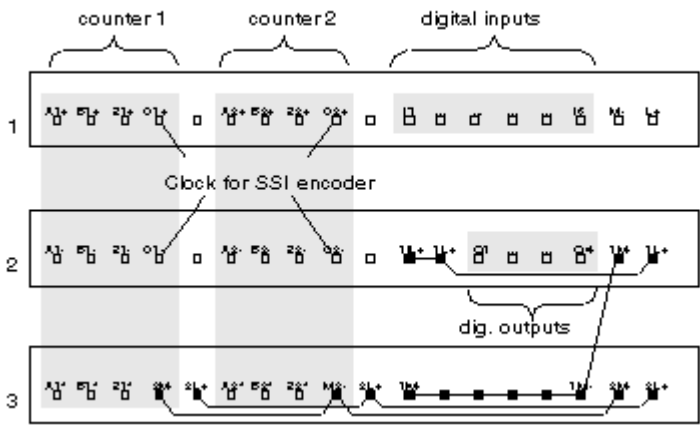
Mounting and Clearance

Mounting on a Wall



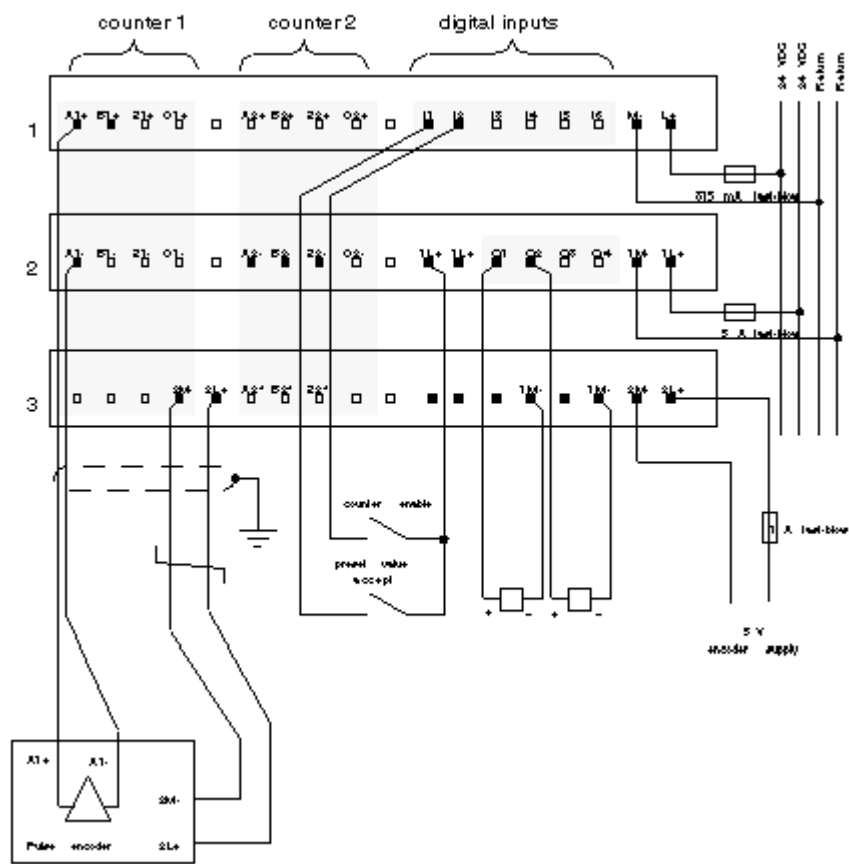
Connections and Schema

Internal Pin Connections

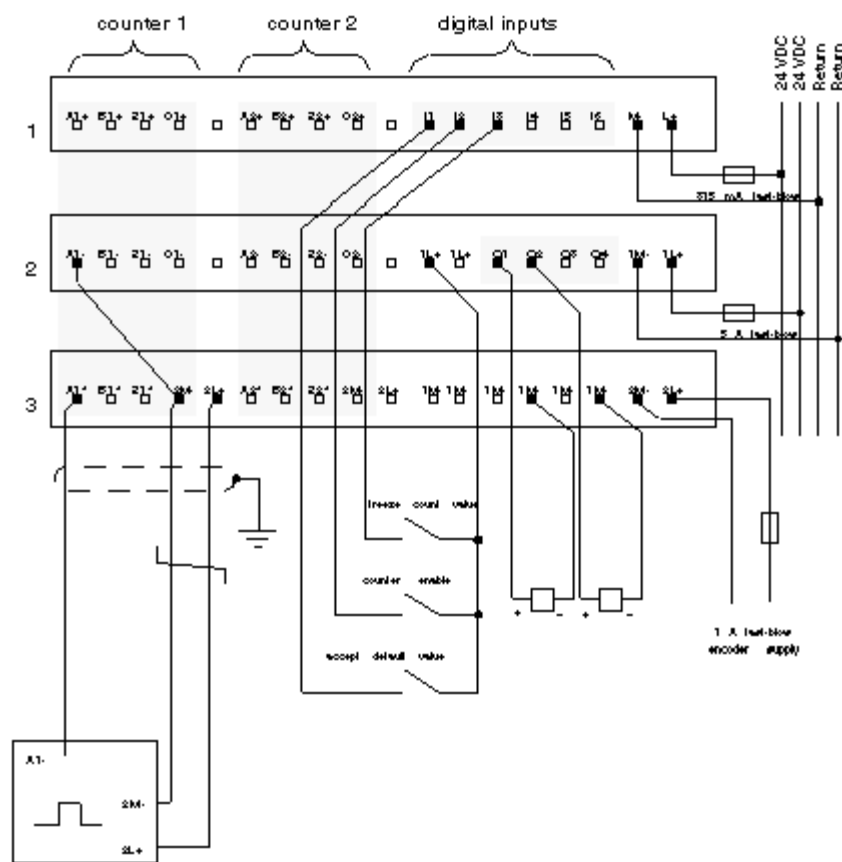


External Wiring Diagrams

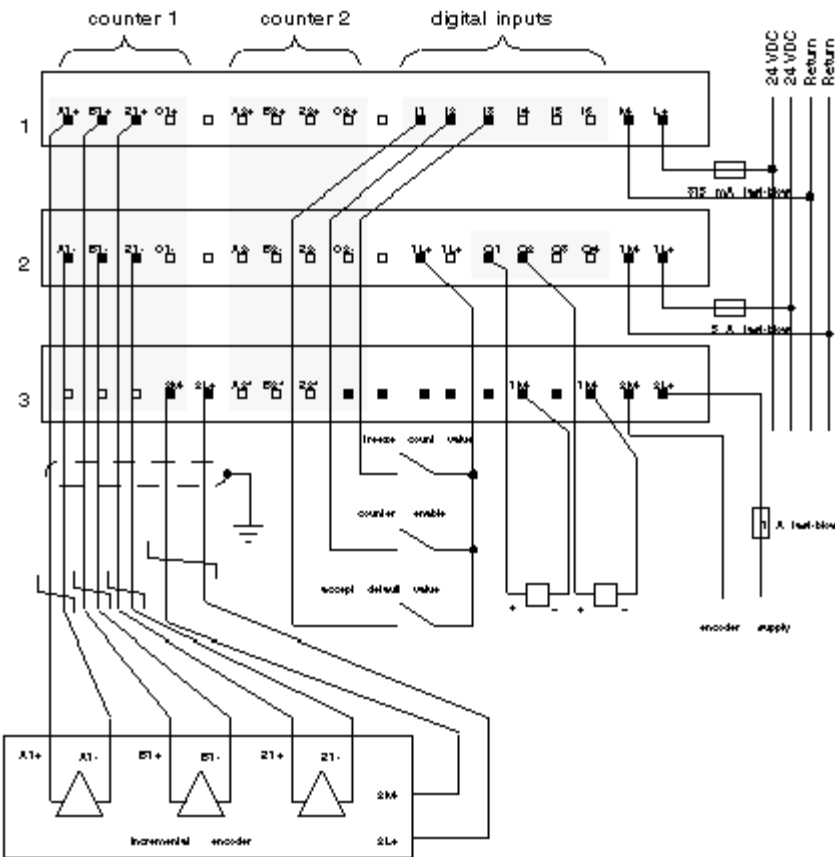
Example for Pulse Encoder (5 V)



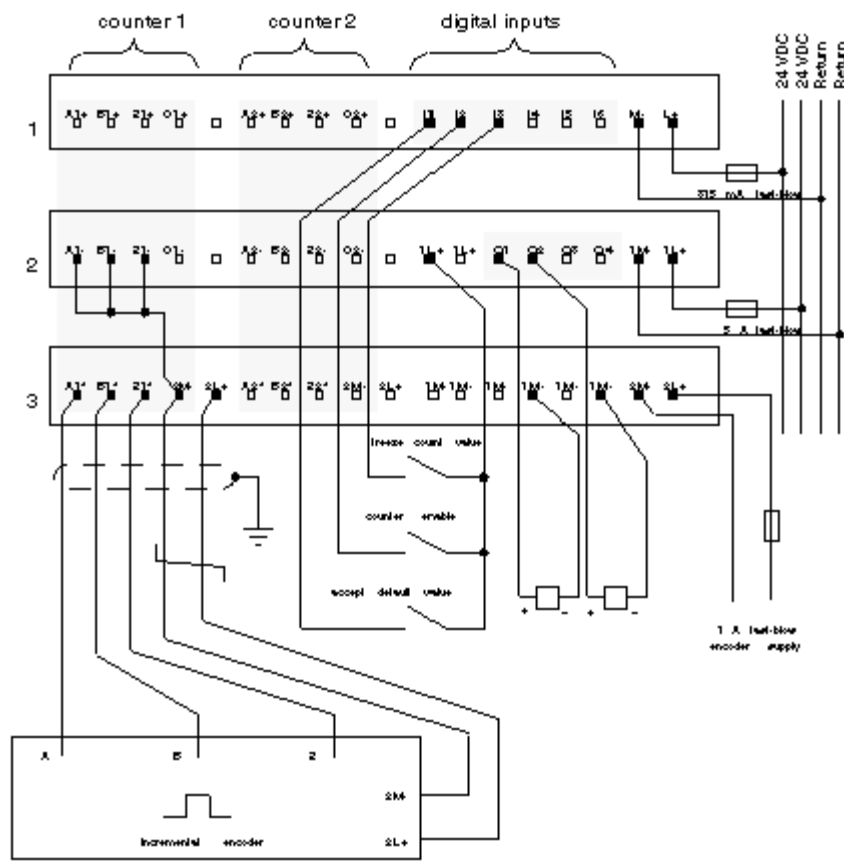
Example for Pulse Encoder (24 V)



Example for Incremental Encoders (RS 422)



Example for 24 V Pulse Encoder on A, B, and R Lines



Example for Absolute Encoders with Actuators

