

Product data sheet

Specifications



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

170AEC92000

Product availability: Non-Stock - Not normally stocked in distribution facility

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

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

Counter configuration	Via comm adapter
marking	CE
Electrical connection	2 connectors for removable terminal blocks
Current consumption	280 mA 24 V DC
Net Weight	0.46 lb(US) (0.21 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	9.1 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	3595861147744
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.28 in (5.800 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	10.31 in (26.200 cm)
Package 1 Weight	12.557 oz (356.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	7.355 lb(US) (3.336 kg)

Contractual warranty

Warranty	18 months
----------	-----------

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 >](#)

[How we assess product sustainability >](#)



Transparency

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

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](#)

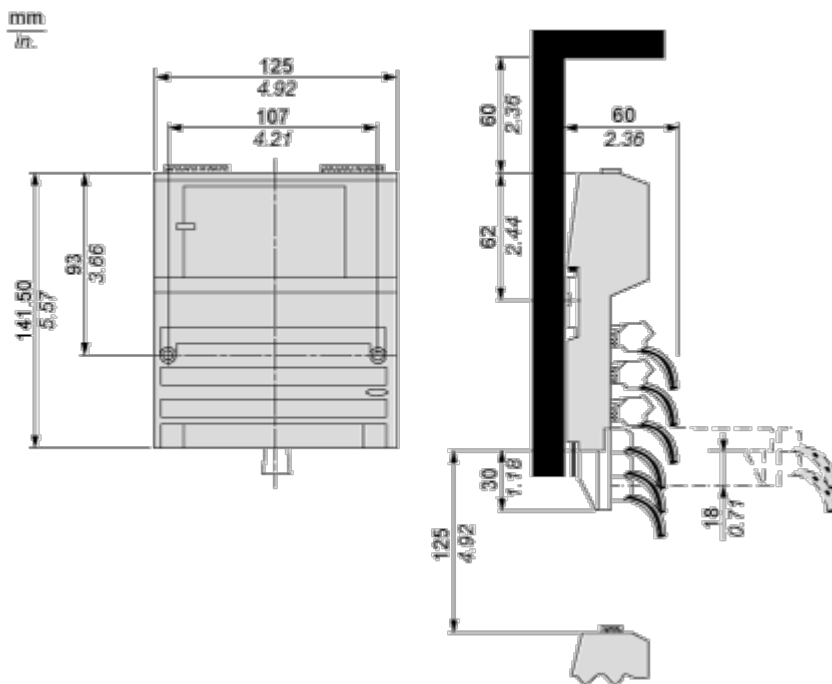
California Proposition 65 **WARNING:** This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Scip Number 441d5619-6318-4bbf-ac83-96d05888ee7e

Dimensions Drawings

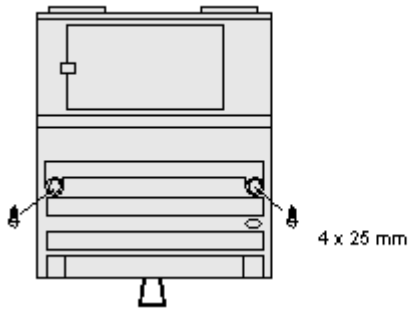
Standard Adapter on a Typical Base

Dimensions



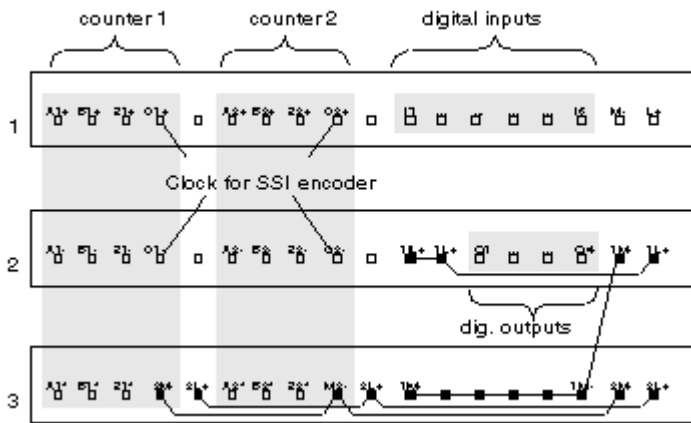
Mounting and Clearance

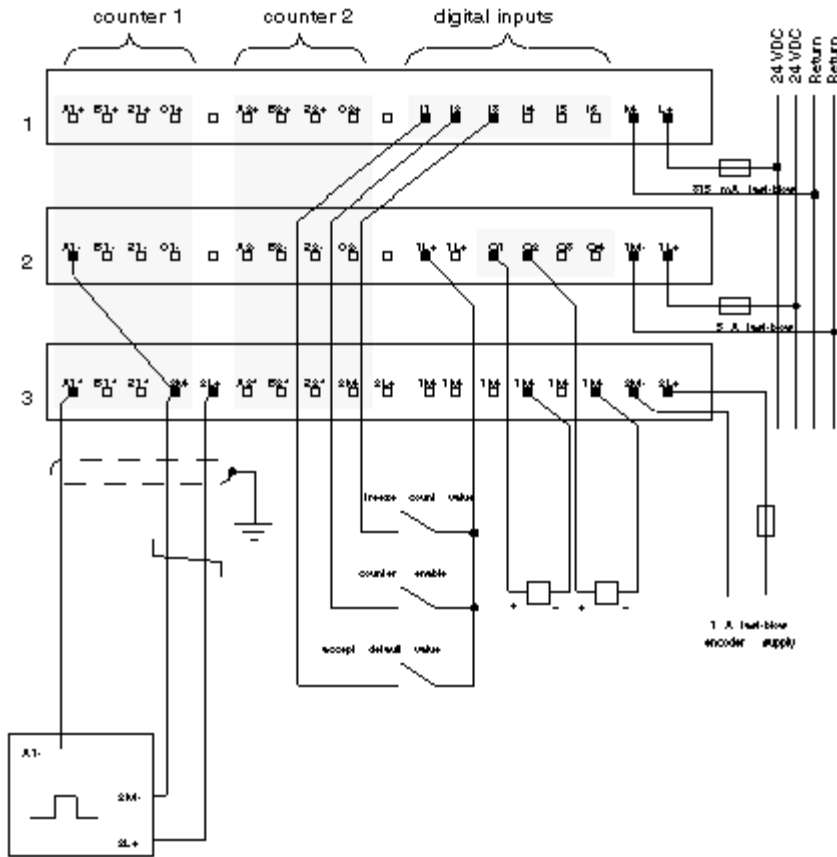
Mounting on a Wall



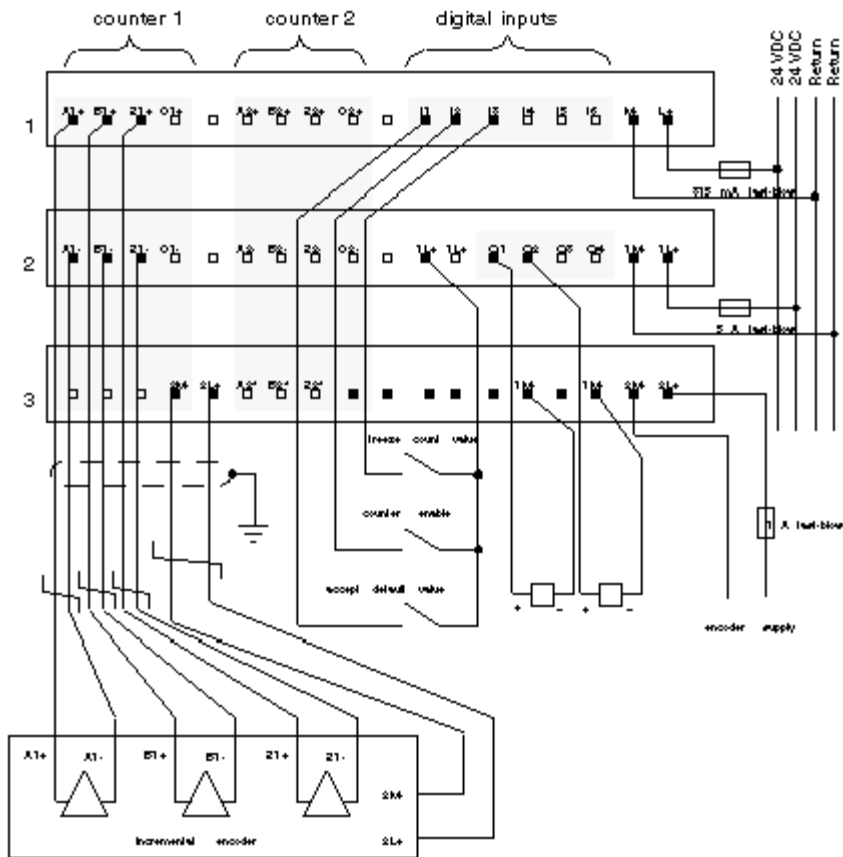
Connections and Schema

Internal Pin Connections

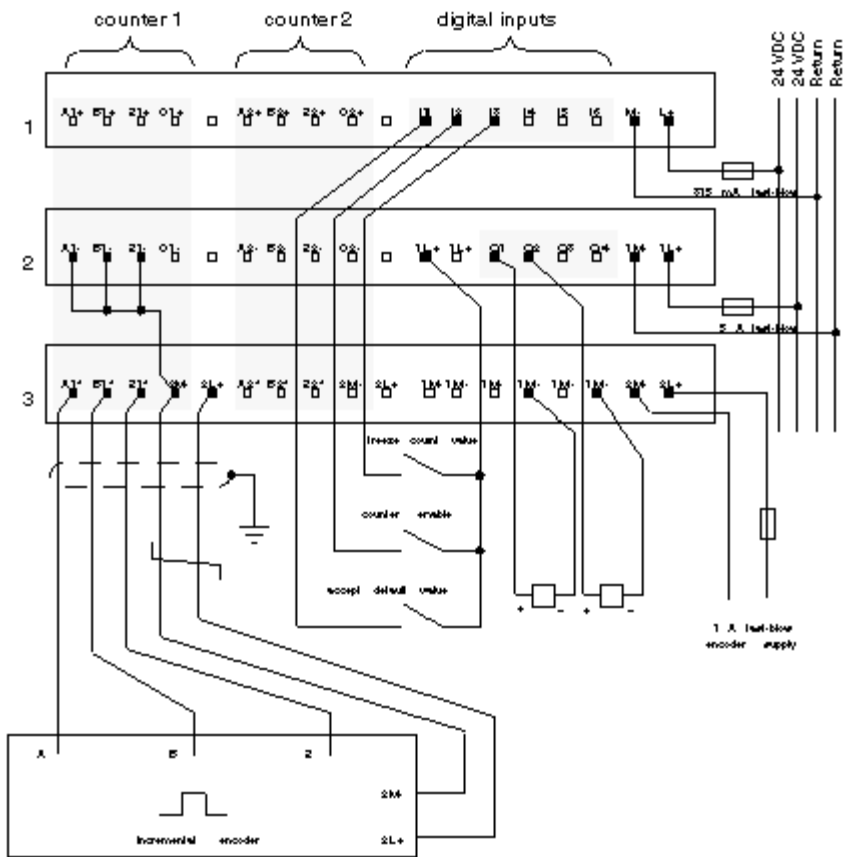




Example for Incremental Encoders (RS 422)



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



Example for Absolute Encoders with Actuators

