



### 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<br>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<br>24 V DC                                                                                                                                                                           |
| Input overvoltage protection | 45 V 10 s                                                                                                                                                                                          |
| Voltage state 1 guaranteed   | $\geq 11$ V                                                                                                                                                                                        |
| Voltage state 0 guaranteed   | $\leq 5$ V                                                                                                                                                                                         |
| Current state 1 guaranteed   | $\geq 2.5$ mA                                                                                                                                                                                      |
| Current state 0 guaranteed   | $\leq 1.2$ mA                                                                                                                                                                                      |
| Discrete output logic        | Positive                                                                                                                                                                                           |
| Discrete output voltage      | 24 V                                                                                                                                                                                               |
| Discrete output current      | 1 A per counter<br>2 A per module<br>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<br>$< 0.1$ ms from state 1 to state 0 output circuit<br>3 ms from state 0 to state 1 input circuit<br>3 ms from state 1 to state 0 input circuit |
| Counting input type          | Absolute SSI up, down with 4 sub-modes<br>Incremental up, down, quadrature                                                                                                                         |
| Counting input voltage       | 24 V single ended<br>5 V differential                                                                                                                                                              |
| Counting frequency           | 10 KHz single ended<br>200 kHz differential                                                                                                                                                        |
| Counter inputs resolution    | 24 bits + sign                                                                                                                                                                                     |
| 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<br>CSA                                       |
| Protective treatment                  | TC                                              |
| Resistance to electrostatic discharge | 4 KV contact IEC 801-2<br>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                  | 00785901401919                              |
| Nbr. of units in pkg. | 1                                           |
| Package weight(Lbs)   | 0.79 lb(US) (0.36 kg)                       |
| Returnability         | No                                          |
| Country of origin     | FR                                          |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 2.17 in (5.5 cm)       |
| Package 1 width              | 7.09 in (18 cm)        |
| Package 1 Length             | 10.24 in (26 cm)       |
| Unit Type of Package 2       | S03                    |
| Number of Units in Package 2 | 8                      |
| Package 2 Weight             | 6.33 lb(US) (2.872 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

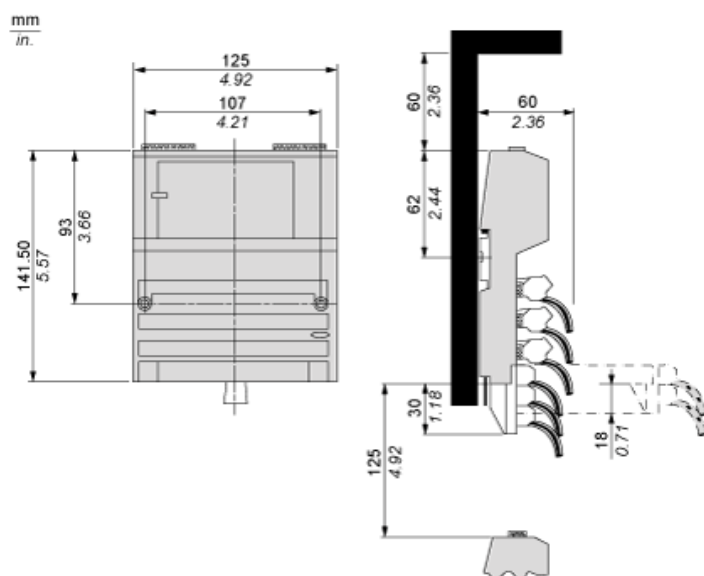
|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                     |
| 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

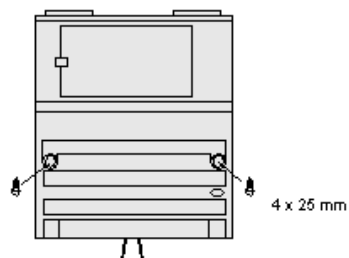
Dimensions



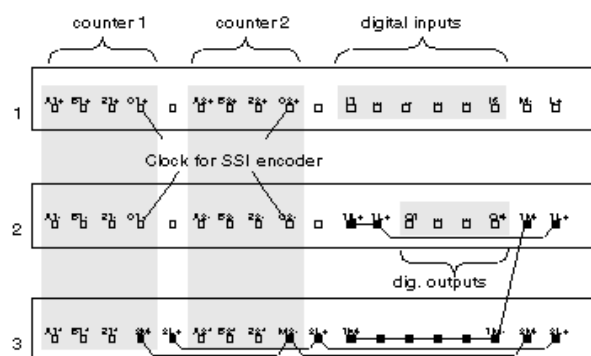
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Mounting on a Wall

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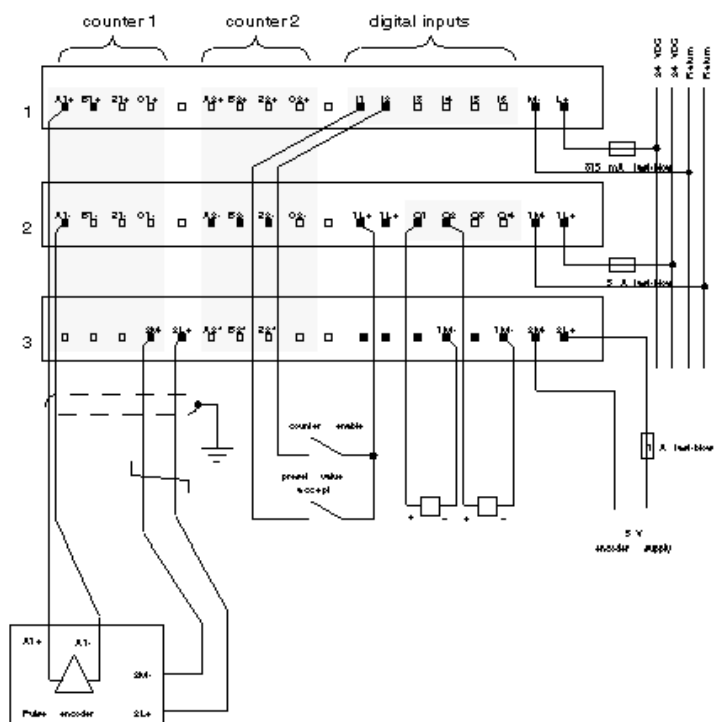


## Internal Pin Connections

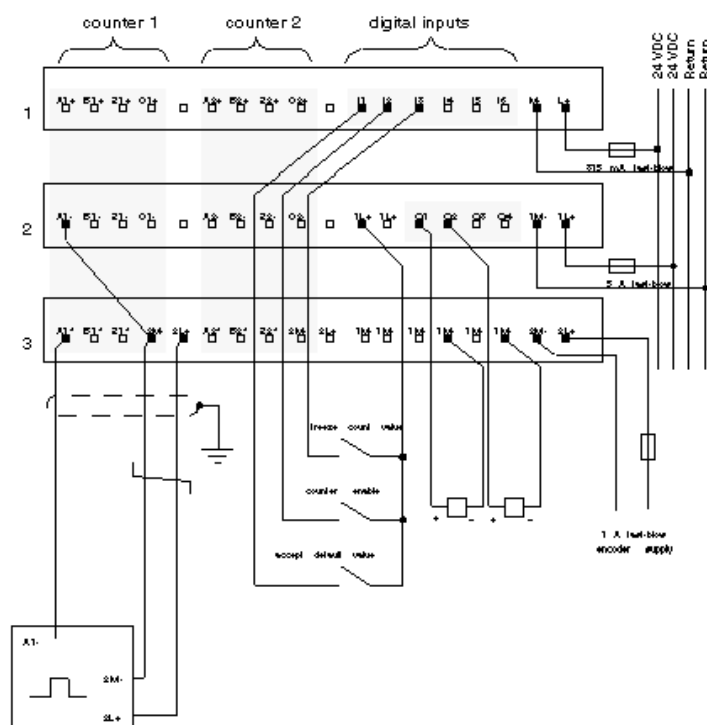


## External Wiring Diagrams

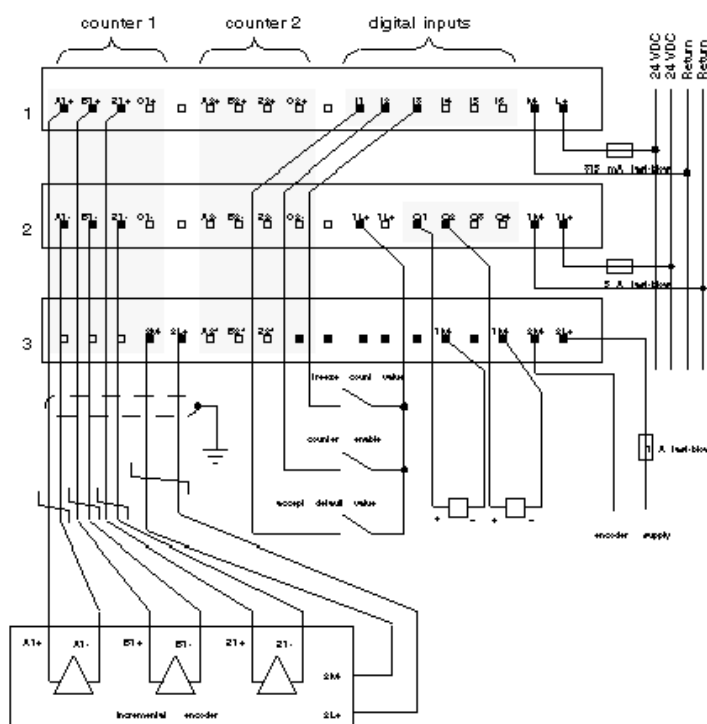
### Example for Pulse Encoder (5 V)



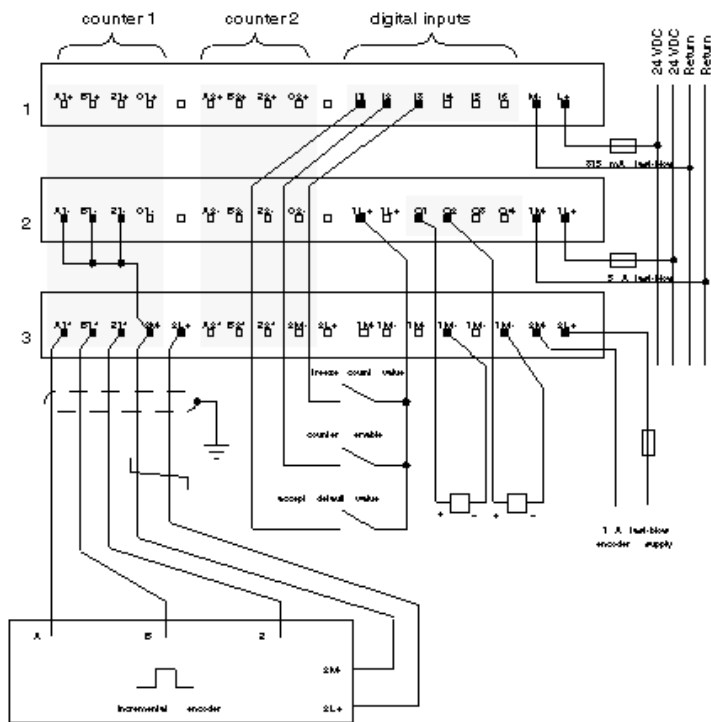
## Example for Pulse Encoder (24 V)



## Example for Incremental Encoders (RS 422)



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



## Example for Absolute Encoders with Actuators

