



### Main

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Range of product          | Modicon Momentum automation platform          |
| Product or component type | Discrete solid state I/O base DC              |
| Group of channels         | 1 group of 16 inputs<br>2 groups of 8 outputs |
| Discrete input number     | 16 IEC 1131-2 Type 1                          |
| Discrete input logic      | Negative                                      |
| Discrete input voltage    | 24 V DC                                       |
| Discrete output number    | 16                                            |
| Discrete output type      | Solid state switch                            |
| Discrete output voltage   | 24 V DC<br><= 30 V DC                         |
| Discrete output logic     | Negative                                      |
| Protective treatment      | TC                                            |

### Complementary

|                                    |                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Us] rated supply voltage          | 24 V DC                                                                                                                                                                        |
| Input voltage limits               | - 3...30 V                                                                                                                                                                     |
| Voltage state 0 guaranteed         | 4...30 V                                                                                                                                                                       |
| Voltage state 1 guaranteed         | -3...5 V                                                                                                                                                                       |
| Current state 0 guaranteed         | <= 1.2 mA                                                                                                                                                                      |
| Current state 1 guaranteed         | >= 2.5 mA                                                                                                                                                                      |
| Input resistance                   | 4 kOhm                                                                                                                                                                         |
| Discrete output current            | 0.5 A per point<br>8 A per module<br>4 A per group                                                                                                                             |
| Leakage current                    | < 1 mA 24 V output circuit                                                                                                                                                     |
| Peak output current                | 5 A                                                                                                                                                                            |
| Voltage drop                       | < 0.5 V 0.5 A at state 1 output circuit                                                                                                                                        |
| Fault type                         | Overload on output                                                                                                                                                             |
| Response time                      | 3.3 ms from state 1 to state 0 on input<br>2.2 ms from state 0 to state 1 on input<br>< 0.1 ms from state 1 to state 0 on output<br>< 0.1 ms from state 0 to state 1 on output |
| Isolation between channels and bus | 500 V AC                                                                                                                                                                       |
| Power dissipation                  | <= 8 W<br>6 W                                                                                                                                                                  |
| Marking                            | CE                                                                                                                                                                             |

|                               |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminals description PLC n°1 | (1)IN_DIS#1<br>(10)IN_DIS#10<br>(11)IN_DIS#11<br>(12)IN_DIS#12<br>(13)IN_DIS#13<br>(14)IN_DIS#14<br>(15)IN_DIS#15<br>(16)IN_DIS#16<br>(2)IN_DIS#2<br>(3)IN_DIS#3<br>(4)IN_DIS#4<br>(5)IN_DIS#5<br>(6)IN_DIS#6<br>(7)IN_DIS#7<br>(8)IN_DIS#8<br>(9)IN_DIS#9<br>(L+)PW_POS<br>(M-)PW_NEG<br>TB                     |
| Terminals description PLC n°2 | (1)OUT_DIS#1<br>(10)OUT_DIS#10<br>(11)OUT_DIS#11<br>(12)OUT_DIS#12<br>(13)OUT_DIS#13<br>(14)OUT_DIS#14<br>(15)OUT_DIS#15<br>(16)OUT_DIS#16<br>(1L+)PW_POS<br>(2)OUT_DIS#2<br>(2L+)PW_POS<br>(3)OUT_DIS#3<br>(4)OUT_DIS#4<br>(5)OUT_DIS#5<br>(6)OUT_DIS#6<br>(7)OUT_DIS#7<br>(8)OUT_DIS#8<br>(9)OUT_DIS#9<br>TB_1 |
| Current consumption           | 250 mA 24 V DC                                                                                                                                                                                                                                                                                                   |
| Depth                         | 47.5 mm                                                                                                                                                                                                                                                                                                          |
| Height                        | 141.5 mm                                                                                                                                                                                                                                                                                                         |
| Width                         | 125 mm                                                                                                                                                                                                                                                                                                           |
| Product weight                | 0.2 kg                                                                                                                                                                                                                                                                                                           |

## Environment

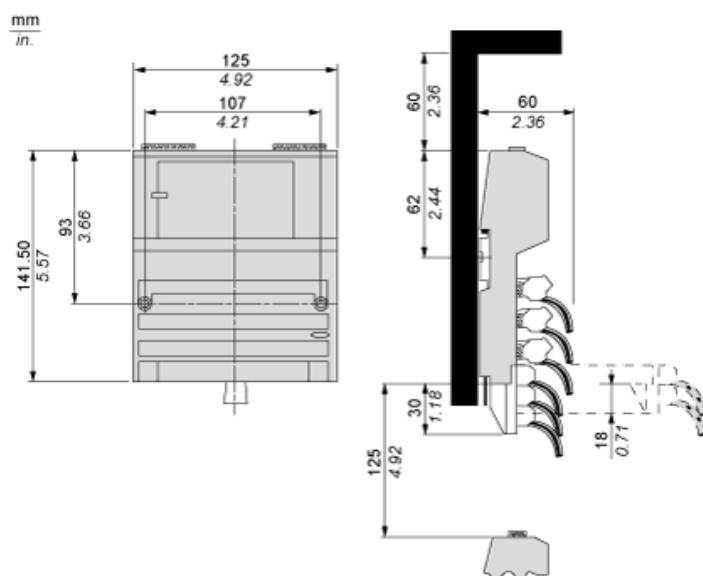
|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Product certifications                | CSA<br>UL                                       |
| Resistance to electrostatic discharge | 8 kV on air IEC 801-2<br>4 kV contact IEC 801-2 |
| Resistance to electromagnetic fields  | 10 V/m 80...1000 MHz 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                                       |

## Offer Sustainability

|                          |                             |
|--------------------------|-----------------------------|
| Sustainable offer status | Not Green Premium product   |
| RoHS (date code: YYWW)   | Will be Compliant on 4Q2013 |

Standard Adapter on a Typical Base

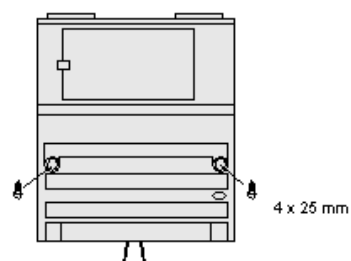
Dimensions



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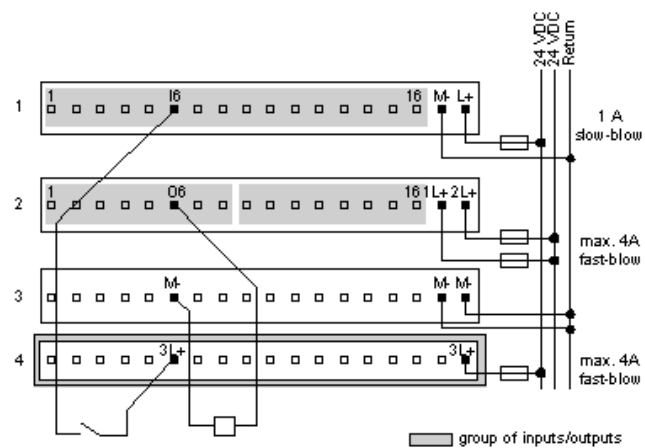
Mounting on a Wall

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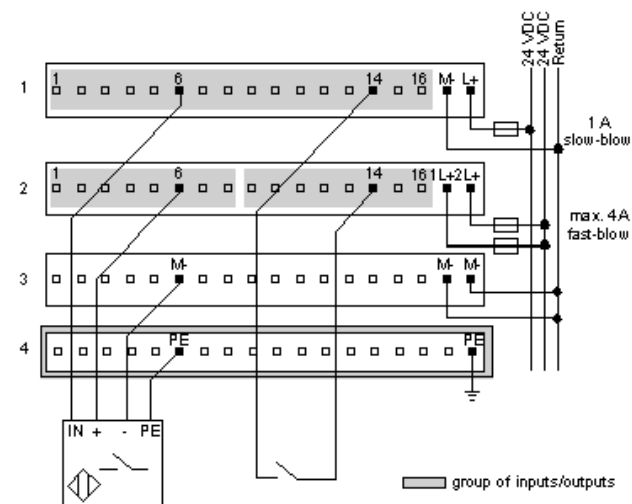


## External Wiring Diagrams

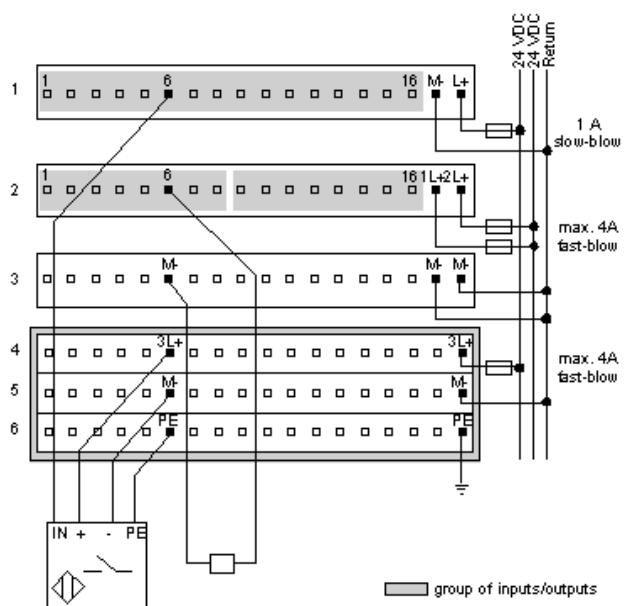
### 2-Wire Devices



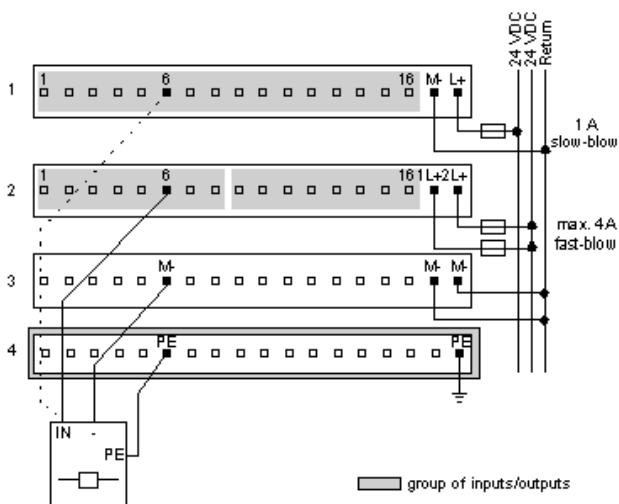
### Sensor Activated by Output



## Four-Wire Sensor with a Two-Wire Actuator



## Broken Wire Detection



## 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.

