



## Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range of product          | Modicon Quantum automation platform |
| Product or component type | Dc discrete input modules           |
| Discrete input number     | 32                                  |

## Complementary

|                                 |                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Group of channels               | 4                                                                                                                        |
| Logic input                     | Positive (sink)                                                                                                          |
| Input voltage limits            | 10...60 V                                                                                                                |
| Input voltage                   | 60 V 1...5 mA DC<br>48 V 2...15 mA DC<br>24 V 6...30 mA DC<br>12 V 5...10 mA DC                                          |
| Voltage state 1 guaranteed      | 9...12 V 12 V +/- 5 %<br>45...60 V 60 V +/- 20 %<br>34...48 V 48 V +/- 20 %<br>11...24 V 24 V +/- 20 %                   |
| Voltage state 0 guaranteed      | 0...5 V 24 V +/- 20 %<br>0...12.5 V 60 V +/- 20 %<br>0...10 V 48 V +/- 20 %<br>0...1.8 V 12 V +/- 5 %                    |
| Absolute maximum voltage        | 75 V                                                                                                                     |
| Addressing requirement          | 2 input words                                                                                                            |
| Response time                   | 4 ms from state 1 to state 0<br>4 ms from state 0 to state 1                                                             |
| Switching frequency             | <= 100 Hz                                                                                                                |
| Isolation between group and bus | 2500 Vrms DC for 1 minute                                                                                                |
| Isolation between group         | 700 Vrms DC for 1 minute                                                                                                 |
| Power dissipation               | 1 W + (0.62 x number of points on)                                                                                       |
| Marking                         | CE                                                                                                                       |
| Local signalling                | 32 LEDs green input status<br>1 LED red external fault detected (F)<br>1 LED green bus communication is present (Active) |
| Bus current requirement         | 300 mA                                                                                                                   |
| Module format                   | Standard                                                                                                                 |
| Product weight                  | 0.295 kg                                                                                                                 |

## Environment

|                                       |                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------|
| Standards                             | CSA C22.2 No 142<br>UL 508                                                  |
| Product certifications                | C-Tick<br>FM Class 1 Division 2                                             |
| Resistance to electrostatic discharge | 8 kV on air conforming to IEC 801-2<br>4 kV contact conforming to IEC 801-2 |
| Resistance to electromagnetic fields  | 10 V/m 80...2000 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                                                                   |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS                             | Compliant - since 0901 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

## Racks for Modules Mounting

### Dimensions of Modules and Racks



- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

10...60 Vdc Discrete Input Sink Module

Wiring Diagram

