



### 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                   | 12 V 5...10 mA DC<br>24 V 6...30 mA DC<br>48 V 2...15 mA DC<br>60 V 1...5 mA DC                                 |
| Voltage state 1 guaranteed      | 9...12 V 12 V +/- 5 %<br>11...24 V 24 V - 15...20 %<br>34...48 V 48 V - 15...20 %<br>45...60 V 60 V - 15...20 % |
| Voltage state 0 guaranteed      | 0...1.8 V 12 V +/- 5 %<br>0...10 V 48 V - 15...20 %<br>0...12.5 V 60 V - 15...20 %<br>0...5 V 24 V - 15...20 %  |
| Absolute maximum voltage        | 75 V  |
| Addressing requirement          | 2 input words   |
| Response Time                   | 4 ms from state 0 to state 1<br>4 ms from state 1 to state 0  |
| 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 + (0.25 x number of points on)  |
| Marking                         | CE  |
| Local signalling                | For bus communication is present (Active) 1 LED (green)<br>For input status 32 LEDs (green)                     |
| Bus current requirement         | 300 mA  |
| Module format                   | Standard  |
| Net Weight                      | 0.65 lb(US) (0.295 kg)  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |  |
|---------------------------------------|--|
| Protective treatment                  | Conformal coating Humiseal 1A33  |
| Standards                             | CSA C22.2 No 142<br>UL 508<br>EN/IEC 61131-2   |
| Product Certifications                | CSA[RETURN]CE[RETURN]ATEX[RETURN]Merchant Navy[RETURN]IEC-Ex[RETURN]UL[RETURN]EAC[RETURN]RCM[RETURN]hazardous location class 1, division 2 |
| 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...2000 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          | 18155-QUANTUM I/O & POWER SUPPLIES |
| Discount Schedule | PC21                               |
| GTIN              | 3595861136304                      |
| Returnability     | No                                 |
| Country of origin | CN                                 |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 6.42 in (16.3 cm)      |
| Package 1 Width              | 1.77 in (4.5 cm)       |
| Package 1 Length             | 12.28 in (31.2 cm)     |
| Package 1 Weight             | 15.77 oz (447.0 g)     |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 2                      |
| Package 2 Height             | 5.91 in (15.0 cm)      |
| Package 2 Width              | 11.81 in (30.0 cm)     |
| Package 2 Length             | 15.75 in (40.0 cm)     |
| Package 2 Weight             | 2.61 lb(US) (1.184 kg) |

## 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> |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</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 |
|----------|-----------|

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

