



### Main

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

### Complementary

|                                    |  |
|------------------------------------|--|
| Group of channels                  | 4 groups of 8  |
| Discrete output logic              | Positive logic (source)  |
| Addressing requirement             | 2 output words   |
| Discrete output voltage            | 24 V DC  |
| Output voltage limits              | 19.2...30 V  |
| Absolute maximum output            | 56 V for 1.3 s decaying pulse  |
| Maximum voltage drop               | <0.4 V 0.5 A   |
| Maximum load current               | 16 A per module<br>4 A per group   |
| Surge current                      | 5 A for 0.0005 s   |
| Response time                      | <= 1 ms at state 0 to state 1<br><= 1 ms at state 1 to state 0   |
| Maximum leakage current            | 0.4 mA 30 V  |
| Load inductance                    | $\text{Inductance(H)} = 0.5 / ((\text{current(A)})^2 \times (\text{switching frequency(Hz)}))$ 50 Hz                                       |
| Fault indication                   | Loss of field power<br>Blown fuse  |
| Associated fuse rating             | 3 A each point<br>5 A per group  |
| Isolation between channels and bus | 1780 Vrms DC for 1 minute  |
| Isolation between group            | 500 Vrms DC for 1 minute   |
| Protection type                    | Internal output protection by 5 A fuse per group   |
| Power dissipation                  | 1.75 W + (0.4 V x total module load current)   |
| Marking                            | CE   |
| Local signalling                   | 1 LED (green) for bus communication is present (Active)<br>1 LED (red) for external fault detected (F)<br>32 LEDs (green) for input status |
| Bus current requirement            | 330 mA   |
| Module format                      | Standard   |
| Net weight                         | 0.45 kg  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Protective treatment                  | Conformal coating Humiseal 1A33   |
| Product certifications                | GL<br>RINA<br>BV<br>GOST<br>DNV<br>FM Class 1 Division 2<br>C-Tick<br>RMRS<br>ABS |
| Standards                             | CSA C22.2 No 142<br>UL 508  |
| Resistance to electrostatic discharge | 4 KV contact conforming to IEC 801-2<br>8 kV on air 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   |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 465 g   |
| Package 1 Height             | 163 mm  |
| Package 1 width              | 45 mm   |
| Package 1 Length             | 312 mm  |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 2       |
| Package 2 Weight             | 3.08 kg |
| Package 2 Height             | 15 cm   |
| Package 2 width              | 30 cm   |
| Package 2 Length             | 40 cm   |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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   |
| 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   |
| 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> |

## 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

## 24 Vdc Discrete Output Source Module

### Wiring Diagram

