



### Main

|                           |  |
|---------------------------|--|
| Range of product          | Modicon Premium Automation platform  |
| Product or component type | Discrete input module  |
| Discrete input number     | 16 resistive isolated conforming to EN/IEC 61131-2 type 2<br>16 resistive isolated |
| Discrete input voltage    | 24 V DC negative<br>24 V AC  |
| Network frequency         | 50/60 Hz 47...63 Hz AC   |
| Sensor power supply       | 20...26 V AC<br>19...30 V DC   |
| Input compatibility       | With 2-wire/3-wire proximity sensors conforming to EN/IEC 60947-5-2                |
| Discrete input current    | 16 mA DC<br>15 mA AC   |

### Complementary

|                            |   |
|----------------------------|---|
| Voltage state1 guaranteed  | 10 V AC<br>≤ 10 V DC                                |
| Current state 1 guaranteed | 6 mA AC<br>≥ 6.5 mA DC                              |
| Voltage state 0 guaranteed | 5 V AC<br>≥ 19 V DC                                 |
| Current state 0 guaranteed | 4 mA AC<br>≤ 2 mA DC                                |
| Input impedance            | 1600 Ohm at state 1                                 |
| Response time              | ≤ 20 ms<br>15 ms                                    |
| Isolation resistance       | < 10 MOhm 500 V DC                                  |
| Power dissipation          | 0.89 W AC<br>(1 W + 0.4 W x No of channels used) DC |
| Electrical connection      | Screw terminal                                      |
| Marking                    | CE  |
| Current consumption        | 80 mA 5 V DC  |
| Module format              | Standard  |
| Product weight             | 0.31 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

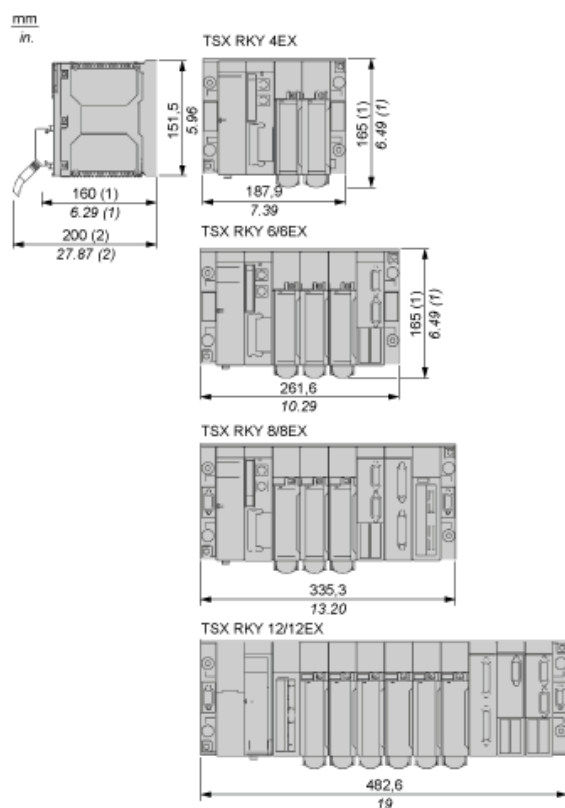
|                                       |   |
|---------------------------------------|---|
| Dielectric strength                   | 1500 V AC at 50/60 Hz   |
| Standards                             | 73/23/EEC<br>89/336/EEC<br>92/31/EEC<br>93/68/EEC<br>CSA 22-2 No 142<br>CSA 22-2 No 213 Class I Division 2 Group A<br>CSA 22-2 No 213 Class I Division 2 Group B<br>CSA 22-2 No 213 Class I Division 2 Group C<br>CSA 22-2 No 213 Class I Division 2 Group D<br>EN/IEC 61131-2<br>IEC 60664<br>UL 508 |
| Product certifications                | ABS<br>BV<br>DNV<br>GL<br>LR<br>RINA<br>RMRS  |
| Ambient air temperature for operation | 0...60 °C   |
| Ambient air temperature for storage   | -25...70 °C   |
| Relative humidity                     | 5...95 % without condensation for storage<br>10...95 % without condensation for operation   |
| Operating altitude                    | 0...2000 m  |
| Protective treatment                  | TC  |
| IP degree of protection               | IP20  |
| Pollution degree                      | 2   |

## Offer Sustainability

|                          |  |
|--------------------------|--|
| Sustainable offer status | Not Green Premium product  |
| RoHS                     | Compliant - since 0925 - Schneider Electric declaration of conformity <a href="#">download declaration of conformity</a> |

## Standard and Extendable Racks for Modules Mounting

### Dimensions of Modules and Racks

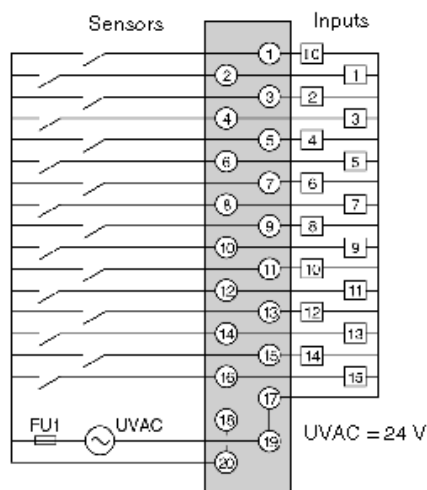


(1) With screw terminal block modules.

(2) Maximum depth for all types of modules and their associated connectors.

## 24 Vac Discrete Input 16-Channel Module

### Wiring Diagram

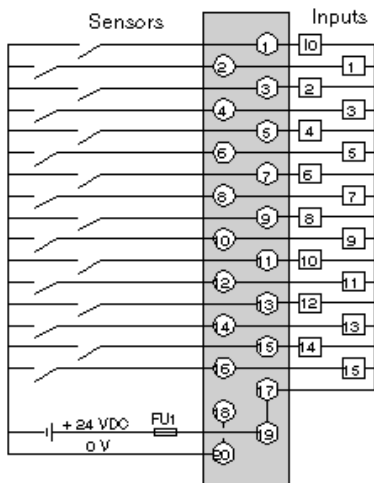


FU1 0.5 A quick-blow fuse

## Using the Module in Direct Current (24 Vdc)

### Wiring Diagram

The module can be used in direct current with its 16 inputs in negative logic.



FU1 0.5 A quick-blow fuse

NOTE: When the 0 V sensor is grounded, it is not recommended to use the negative logic. If any wire is accidentally disconnected and comes into contact with the mechanical ground, this might set an input to 1, which could result in a wrong command.