# Product data sheet
## Characteristics

# TSXDEY16A2C
discrete input module -16 capacitive isolated - 48 V AC - 16 mA

## Commercial status
End of Commercialisation :

⚠ End of Commercialisation

## Main

| | |
|---|---|
| Range of product | Modicon Premium Automation platform |
| Product or component type | Discrete input module |
| Discrete input number | 16 capacitive isolated conforming to EN/IEC 61131-2 type 2 |
| Discrete input voltage | 48 V AC |
| Network frequency | 50/60 Hz 47…63 Hz AC |
| Sensor power supply | 40…52 V |
| Input compatibility | With 2-wire/3-wire proximity sensors conforming to EN/IEC 60947-5-2 |
| Discrete input current | 16 MA |

## Complementary

| | |
|---|---|
| Voltage state 1 guaranteed | 29 V |
| Current state 1 guaranteed | 6 mA |
| Voltage state 0 guaranteed | 10 V |
| Current state 0 guaranteed | 4 mA |
| Input impedance | 3200 Ohm at state 1 |
| Response time | <= 20 ms<br>10 ms |
| Insulation resistance | < 10 MOhm 500 V DC |
| Power dissipation | 0.86 W |
| Electrical connection | Screw terminal |
| Marking | CE |
| Current consumption | 80 mA at 5 V DC |
| Module format | Standard |
| Net weight | 0.32 Kg |

## Environment

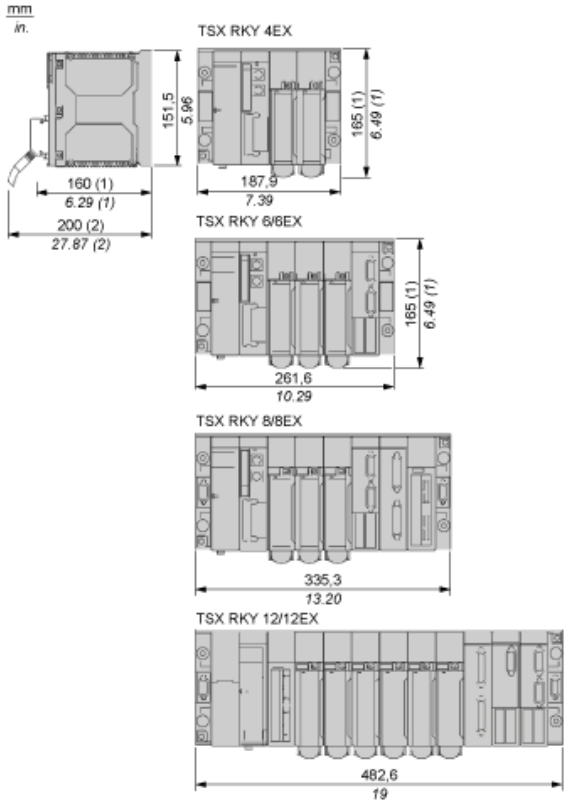
| | |
|---|---|
| Dielectric strength | 1500 V AC at 50/60 Hz |
| Standards | IEC 60664<br>CSA C22.2 No 213 Class I Division 2 Group A<br>73/23/EEC<br>CSA C22.2 No 213 Class I Division 2 Group B<br>CSA C22.2 No 213 Class I Division 2 Group C<br>CSA C22.2 No 213 Class I Division 2 Group D<br>CSA C22.2 No 142<br>UL 508<br>EN/IEC 61131-2<br>93/68/EEC<br>92/31/EEC<br>89/336/EEC |
| Product certifications | DNV<br>GL<br>LR<br>BV<br>ABS<br>RINA<br>RMRS |
| Ambient air temperature for operation | 0…60 °C |
| Ambient air temperature for storage | -25…70 °C |
| Relative humidity | 10…95 % without condensation for operation<br>5…95 % without condensation for storage |
| Operating altitude | 0...2000 m |
| Protective treatment | TC<br>Conformal coating Humiseal 1A33 |
| IP degree of protection | IP20 |
| Pollution degree | 2 |

## Contractual warranty

| | |
|---|---|
| Warranty | 18 months |

## Standard and Extendable Racks for Modules Mounting

### Dimensions of Modules and Racks

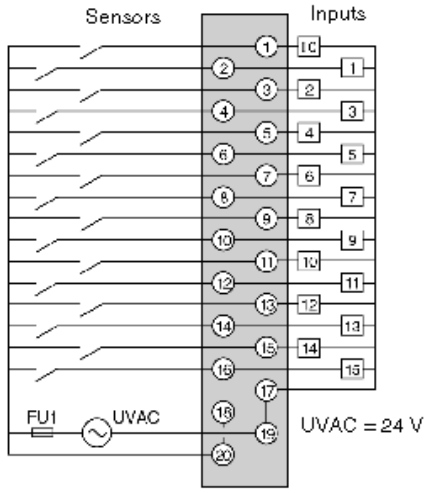



(1) With screw terminal block modules.

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

## 24 Vac Discrete Input 16-Channel Module

### Wiring Diagram

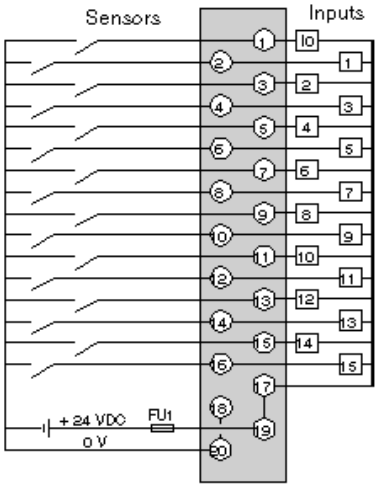



FU1 0.5 A quick-blow fuse

## 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.

| Product Life Status : | Post commercialisation |
|---|---|

## TSXDEY16A2C may be replaced by any of the following products:

BMXDAI1602H

discrete input module X80 - 16 inputs - 24V AC resistive

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2017 | Not same dimensions/design

BMXDAI1602H

discrete input module X80 - 16 inputs - 24V AC resistive

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2017 | Not same dimensions/design

BMXDAI1602H

discrete input module X80 - 16 inputs - 24V AC resistive

Qty 1

Reason for Substitution: End of life | Substitution date: 30 Jun 2018 |