

Product data sheet

Characteristics

TSXDEY16A2C

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



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 state1 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 10 ms
Isolation resistance	< 10 MOhm 500 V DC
Power dissipation	0.86 W
Electrical connection	Screw terminal
Marking	CE
Current consumption	80 mA 5 V DC
Module format	Standard
Product weight	0.32 kg

Environment

Dielectric strength	1500 V AC at 50/60 Hz
Standards	73/23/EEC 89/336/EEC 92/31/EEC 93/68/EEC CSA 22-2 No 142 CSA 22-2 No 213 Class I Division 2 Group A CSA 22-2 No 213 Class I Division 2 Group B CSA 22-2 No 213 Class I Division 2 Group C CSA 22-2 No 213 Class I Division 2 Group D EN/IEC 61131-2 IEC 60664 UL 508
Product certifications	ABS BV DNV GL LR RINA 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 10...95 % without condensation for operation

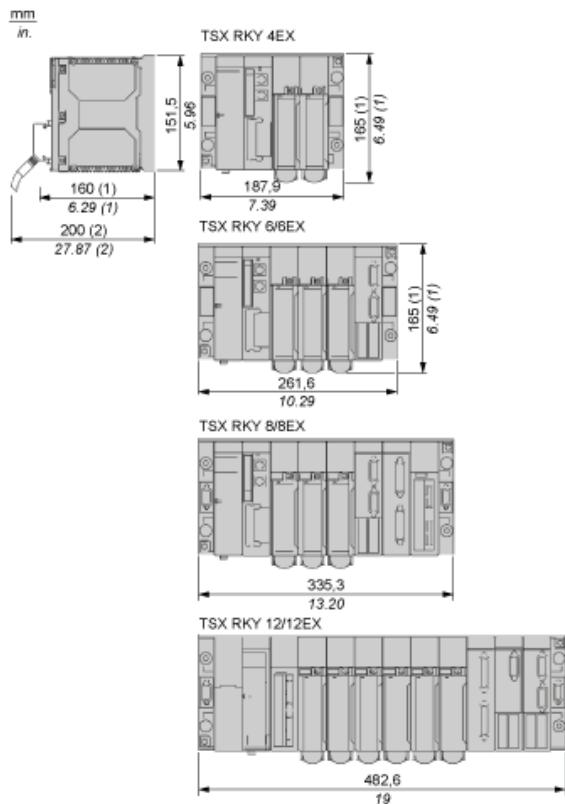
Operating altitude	0...2000 m
Protective treatment	Conformal coating Humiseal 1A33 TC
IP degree of protection	IP20
Pollution degree	2

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0925 - Schneider Electric declaration of conformity download declaration of conformity

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

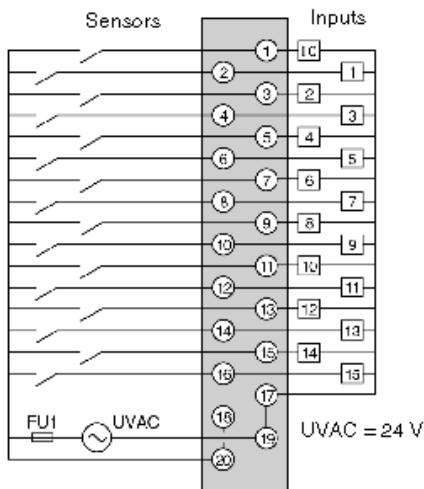


(1) With screw terminal block modules.

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

24 Vac Discrete Input 16-Channel Module

Wiring Diagram

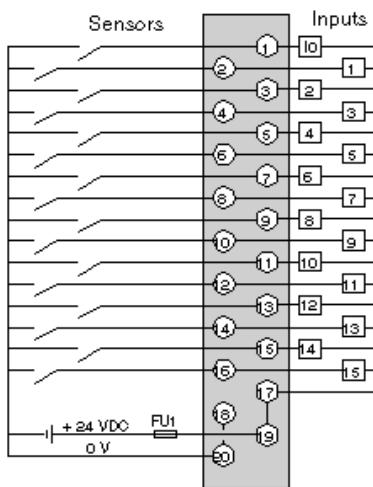


FU1 0.5 A quick-blow fuse

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.