Product data sheet
Characteristics

TSXDEY16A2
discrete input module Modicon Premium - 16 I 24 V AC

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 resistive isolated conforming to EN/IEC 61131-2 type 2 16 resistive isolated
Discrete input voltage	24 V DC negative 24 V AC
Network frequency	50/60 Hz 47…63 Hz AC
Sensor power supply	19…30 V DC 20…26 V AC
Input compatibility	With 2-wire/3-wire proximity sensors conforming to EN/IEC 60947-5-2
Discrete input current	15 MA AC 16 MA DC

Complementary

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

Environment

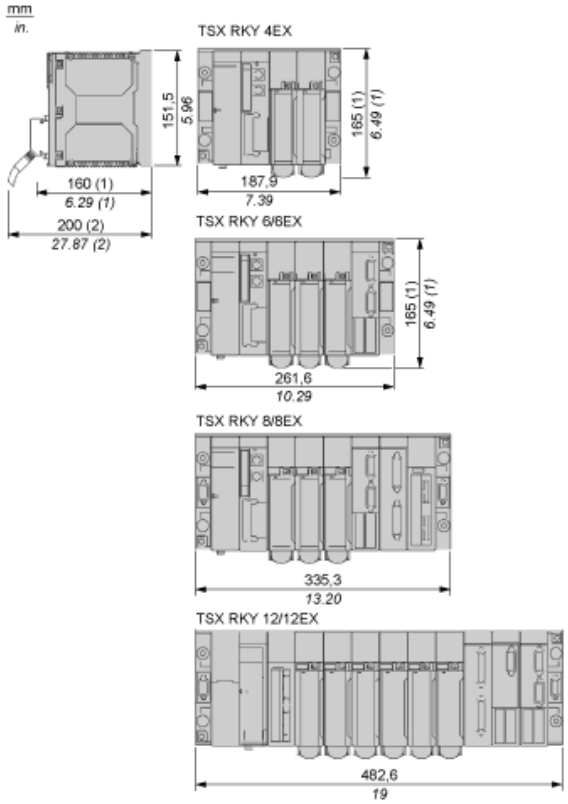
Dielectric strength	1500 V AC at 50/60 Hz
Standards	CSA C22.2 No 213 Class I Division 2 Group B 93/68/EEC CSA C22.2 No 142 73/23/EEC EN/IEC 61131-2 IEC 60664 89/336/EEC UL 508 CSA C22.2 No 213 Class I Division 2 Group D 92/31/EEC CSA C22.2 No 213 Class I Division 2 Group A CSA C22.2 No 213 Class I Division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

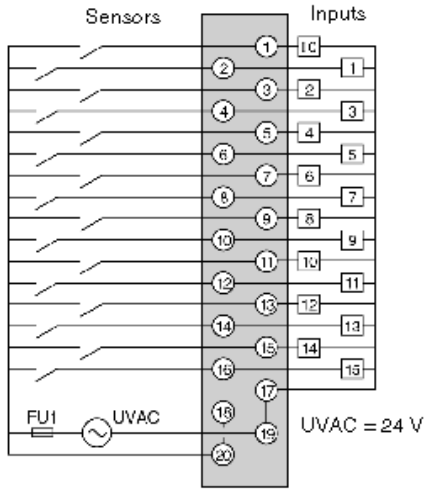


(1) With screw terminal block modules.

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

24 Vac Discrete Input 16-Channel Module

Wiring Diagram

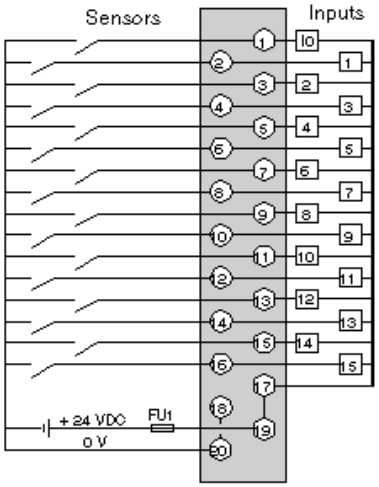


FU1 0.5 A quick-blow fuse

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

TSXDEY16A2 may be replaced by any of the following products:

BMXDAI1602

discrete input module X80 - 16 inputs - 24 V AC/DC negative

Qty 1

Reason for Substitution: End of life | Substitution date: 10 Apr 2017 |

BMXDAI1602

discrete input module X80 - 16 inputs - 24 V AC/DC negative

Qty 1

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

BMXDAI1602

discrete input module X80 - 16 inputs - 24 V AC/DC negative

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2018 | Not same dimensions/design

BMXDAI1602

discrete input module X80 - 16 inputs - 24 V AC/DC negative

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2018 | Not same dimensions/design

BMXDAI1602

discrete input module X80 - 16 inputs - 24 V AC/DC negative

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2018 | Not same dimensions/design

BMXDAI1602

discrete input module X80 - 16 inputs - 24 V AC/DC negative

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2018 |