

# Product data sheet

Specifications



## discrete output module - 8 relay protected output - 24..120 V DC - 5 A

TSXDSY08R4DC

⚠ Discontinued - Service only

⚠ Discontinued on: Dec 31, 2017

⚠ To be end-of-service on: Dec 31, 2025

### Main

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| Range Of Product          | Modicon Premium Automation platform                   |
| Product Or Component Type | Discrete output module                                |
| Discrete Output Number    | 8                                                     |
| Discrete Output Type      | Relay protected                                       |
| Discrete Output Voltage   | 24...120 V DC conforming to EN/IEC 61131-2 19...143 V |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ith] Conventional Free Air Thermal Current | 5 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Response Time                               | < 10 ms (activation)<br>< 15 ms (deactivation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Contacts Type And Composition               | 2 x 2 C/O + 2 x 2 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reverse Polarity Protection                 | RC circuit and Ge-Mov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Output Overload Protection                  | 6.3 A, interchangeable fuse per common fast blow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Short-Circuit Protection                    | 6.3 A, interchangeable fuse per common fast blow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isalotion Resistance                        | > 10 MOhm 500 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power Dissipation                           | (0.25 W + 0.24 W x No of outputs at state 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Electrical Durability                       | 1000000 cycles DC-12 100 W 48 V resistive<br>1000000 cycles DC-12 220 W 100...120 V resistive<br>1000000 cycles DC-12 50 W 24 V resistive<br>1000000 cycles DC-3 100 W 48 V inductive<br>1000000 cycles DC-3 220 W 100...120 V inductive<br>1000000 cycles DC-3 50 W 24 V inductive<br>2000000 cycles DC-3 110 W 100...120 V inductive<br>2000000 cycles DC-3 20 W 24 V inductive<br>2000000 cycles DC-3 50 W 48 V inductive<br>300000 cycles DC-12 100 W 24 V resistive<br>300000 cycles DC-12 200 W 48 V resistive<br>300000 cycles DC-12 440 W 100...120 V resistive |
| Marking                                     | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Electrical Connection                       | Screw terminal block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Current Consumption                         | 55 mA at 5 V DC<br>80 mA at 24 V DC rack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Module Format                               | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Net Weight                                  | 0.37 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### Environment

Disclaimer: 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

|                                       |                                                                                                                                                                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric Strength                   | 2000 V 50/60 Hz 60 s                                                                                                                                                                                                                                                                       |
| Standards                             | CSA C22.2 No 213 Class I Division 2 Group B<br>IEC 61131-2<br>89/336/EEC<br>93/68/EEC<br>CSA C22.2 No 213 Class I Division 2 Group D<br>CSA C22.2 No 142<br>73/23/EEC<br>CSA C22.2 No 213 Class I Division 2 Group A<br>UL 508<br>92/31/EEC<br>CSA C22.2 No 213 Class I Division 2 Group C |
| Product Certifications                | DNV<br>ABS<br>RINA<br>LR<br>BV<br>GL<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                  | Conformal coating Humiseal 1A33<br>TC                                                                                                                                                                                                                                                      |
| Ip Degree Of Protection               | IP20                                                                                                                                                                                                                                                                                       |
| Pollution Degree                      | 2                                                                                                                                                                                                                                                                                          |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 5.5 cm  |
| Package 1 Width              | 18.0 cm |
| Package 1 Length             | 26.0 cm |
| Package 1 Weight             | 527.0 g |
| Unit Type Of Package 2       | S02     |
| Number Of Units In Package 2 | 2       |
| Package 2 Height             | 15 cm   |
| Package 2 Width              | 30 cm   |
| Package 2 Length             | 40 cm   |
| Package 2 Weight             | 1.48 kg |

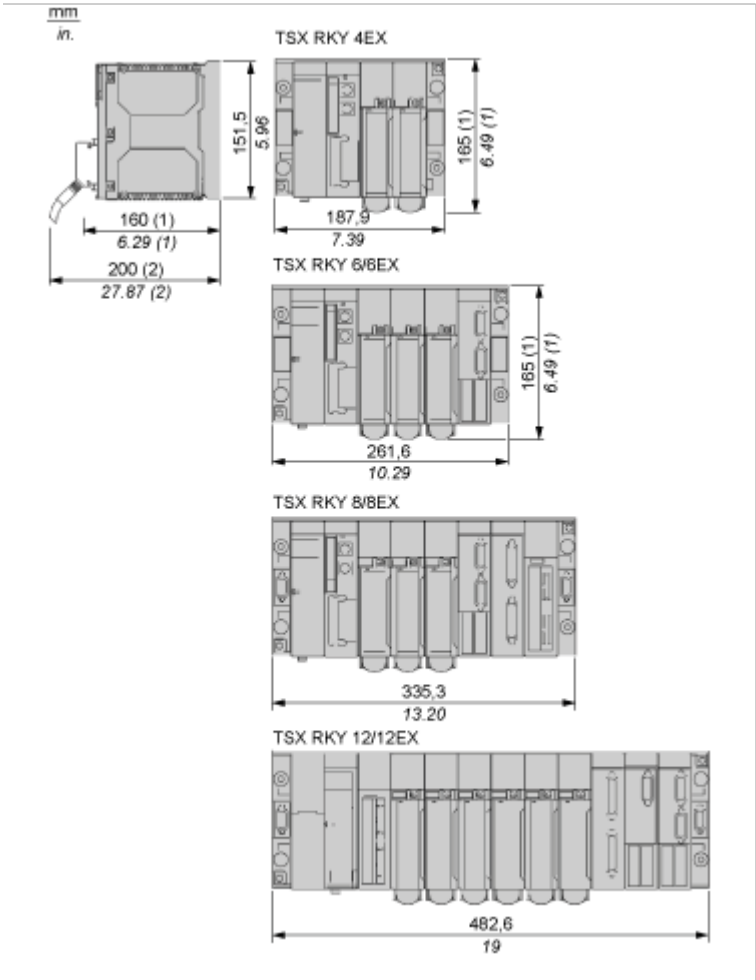
## Contractual warranty

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

Dimensions Drawings

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

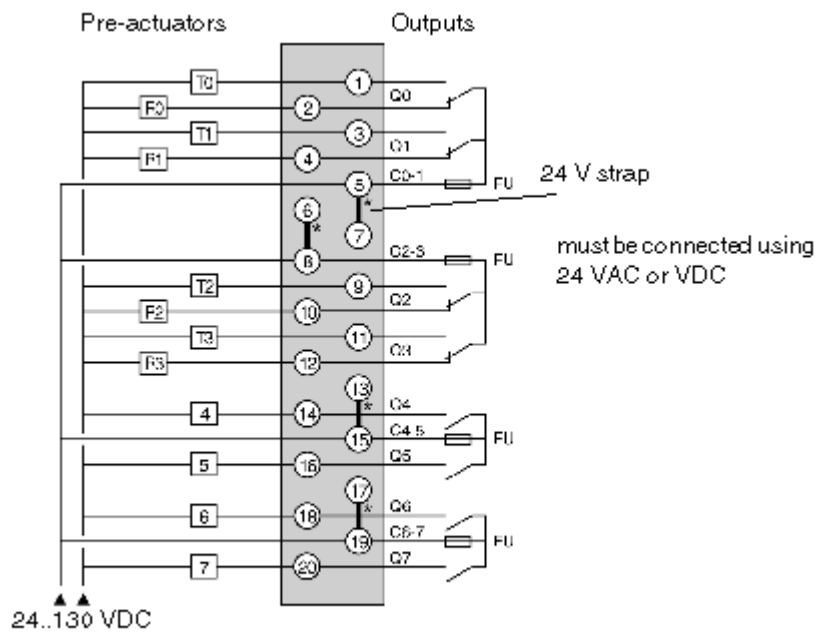


- (1) With screw terminal block modules.
- (2) Maximum depth for all types of modules and their associated connectors.

Connections and Schema

Discrete Relay Output 8-Channel Module for Direct Current

Wiring Diagram



FU 6.3 A quick-blow fuse