



Main

Range of product	Modicon TSX Micro automation platform
Product or component type	Discrete relay I/O base
Discrete input number	16 screw terminal block
Discrete input voltage	24 V DC negative
Discrete input current	9 mA

Complementary

Input voltage limits	≤ 8 V at state 1
Current state 0 guaranteed	≤ 1.5 mA
Current state 1 guaranteed	≥ 2.5 mA
Input impedance	4 Ohm
Response time	0.1...7.5 ms input at state 0 to state 1 0.1...7.5 ms input at state 1 to state 0 < 10 ms output
Input compatibility	2-wire/3-wire proximity sensor
Load type	Resistive
Current consumption	160 mA positive 131 mA negative
Power dissipation in W	4.5 W
Output voltage limits	10...34 V DC 19...264 V AC
Contacts type and composition	NO
Power consumption in VA	50 VA 24 V AC-12 resistive 110 VA 48 V AC-12 resistive 220 VA 110 V AC-12 resistive 220 VA 220 V AC-12 resistive 24 VA 24 V AC-15 inductive 24 VA 48 V AC-15 inductive 220 VA 220 V AC-15 inductive 110 VA 110 V AC-15 inductive
Power consumption in W	40 W 24 V DC-12 resistive 24 W 24 V DC-13 inductive
Isolation voltage	1500 V 1 s
Insulation resistance	≥ 10 mOhm
Product weight	0.5 kg

Environment

Standards	IEC 1131-2 Type 1
[Ith] conventional free air thermal current	3 A

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Will not be compliant Will not be compliant
Product environmental profile	Available

Contractual warranty

Warranty period	18 months
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Wiring Diagrams

The diagram illustrates the terminal block layout for the 1200 series PLC, organized into four main sections: Inputs, Sensors, Actuators, and Outputs.

- Inputs:** Located on the right side, terminals 0 through 15 are labeled "Inputs".
- Sensors:** Located in the top middle, terminals 1 through 16 are labeled "Sensors".
- Actuators:** Located in the bottom middle, terminals 17 through 36 are labeled "Actuators".
- Outputs:** Located on the right side, terminals 18 through 36 are labeled "Outputs".

Terminal Block Details:

- Inputs (0-15):** Each input terminal has a corresponding "Sink" terminal (e.g., 0 and 1, 2 and 3, etc.).
- Sensors (1-16):** Each sensor terminal is connected to a common +24 VDC supply.
- Actuators (17-36):** Each actuator terminal is connected to a common 0 VDC supply.
- Outputs (18-36):** Each output terminal has a corresponding "Sink" terminal (e.g., 18 and 19, 20 and 21, etc.).

Load Configurations:

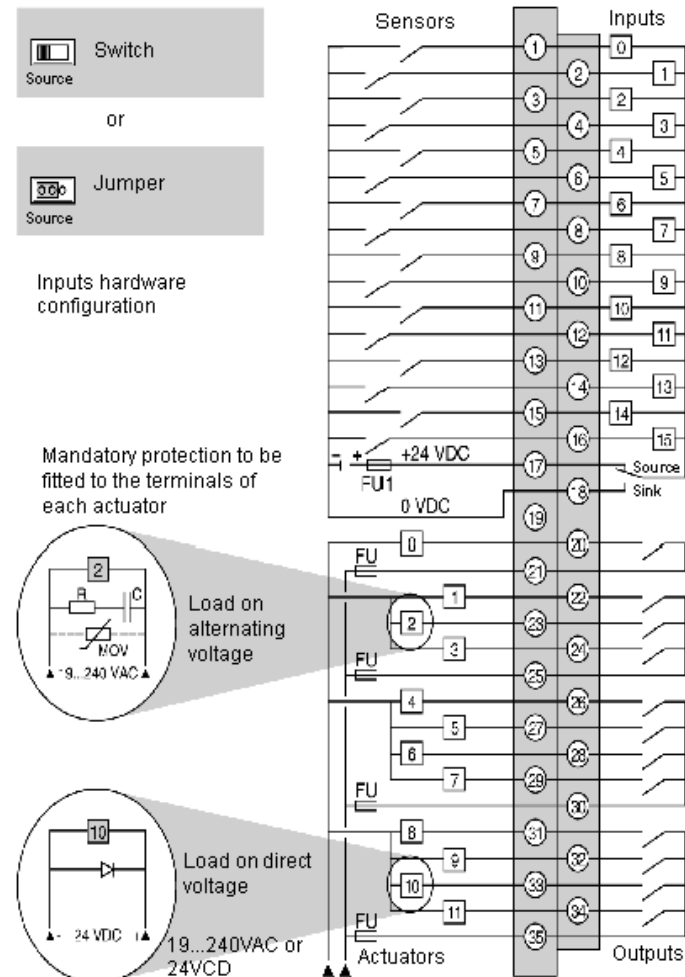
- Load on alternating voltage:** A circuit diagram showing a resistor (R) and a capacitor (C) in parallel, with a MOV (Metal Oxide Varistor) in series. The voltage range is 19...240 VAC.
- Load on direct voltage:** A circuit diagram showing a diode in series with a resistor (R). The voltage range is 19...240VAC or 24VDC.

Warnings and Notes:

- Mandatory protection:** Protection must be fitted to the terminals of each actuator.
- Fuse (FU1):** A fuse is indicated for the 0 VDC supply line.
- Source/Sink:** The diagram indicates "Source" and "Sink" connections for the inputs and outputs.

FU = Fast-blow fuses to be calibrated according to the load.

Negative logic input (Source)



FU1 = 0.5A fast-blow fuse.

FU = Fast-blow fuses to be calibrated according to the load