SR3XT141BD
discrete I/O extension module - 14 I/O - 24 V DC -
for Zelio Logic

Main
Range of product: Zelio Logic
Product or component type: Discrete I/O extension module

Complementary
Number or control scheme lines: 120 with ladder programming
Cycle time: 6...90 ms
Backup time: 10 years at 25 °C
Clock drift: 12 min/year at 0...55 °C
Checks: Program memory on each power up
[Us] rated supply voltage: 24 V DC
Supply voltage limits: 19.2...30 V
Reverse polarity protection: With
Discrete input number: 8 conforming to EN/IEC 61131-2 type 1
Discrete input type: Resistive
Discrete input voltage: 24 V DC
Discrete input current: 4 mA
Counting frequency: 1 kHz for discrete input
Voltage state 1 guaranteed: >= 15 V for I1...IA and IH...IR discrete input circuit
Voltage state 0 guaranteed: <= 5 V for I1...IA and IH...IR discrete input circuit
Current state 1 guaranteed: >= 1.2 mA for IB...IG used as discrete input circuit
Current state 0 guaranteed: <= 0.5 mA for IB...IG used as discrete input circuit
Input compatibility: 3-wire proximity sensors PNP (discrete input)
Input impedance: 12 kOhm (IB...IG used as discrete input circuit)
7.4 kOhm (I1...IA and IH...IR discrete input circuit)
Number of outputs: 6 relay output(s)
Output voltage limits: 24...250 V AC (relay output)
5...30 V DC (relay output)
Contacts type and composition: NO for relay output
Output thermal current: 5 A for 2 outputs (relay output)

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.
8 A for 4 outputs (relay output)

**Electrical durability**
- 500,000 cycles at 230 V, 0.9 A (AC-15) for relay output conforming to EN/IEC 60947-5-1
- 500,000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1
- 500,000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1
- 500,000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1

**Switching capacity in mA**
- >= 10 mA at 12 V (relay output)

**Operating rate in Hz**
- 0.1 Hz (at le) for relay output
- 10 Hz (no load) for relay output

**Mechanical durability**
- 10,000,000 cycles (relay output)

**Rated impulse withstand voltage**
- 4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1

**Response time**
- 10 ms (from state 0 to state 1) for relay output
- 5 ms (from state 1 to state 0) for relay output

**Connections - terminals**
- Screw terminals, flexible cable with cable end 1 x 0.25...1 x 2.5 mm² / AWG 24...AWG 14 AWG
- Screw terminals, flexible cable with cable end 2 x 0.25...2 x 0.75 mm² / AWG 24...AWG 18 AWG
- Screw terminals, semi-solid cable 1 x 0.2...1 x 2.5 mm² / AWG 25...AWG 14 AWG
- Screw terminals, solid cable 1 x 0.2...1 x 2.5 mm² / AWG 25...AWG 14 AWG
- Screw terminals, solid cable 2 x 0.2...2 x 1.5 mm² / AWG 24...AWG 16 AWG

**Tightening torque**
- 0.5 N.m

**Overvoltage category**
- III conforming to EN/IEC 60664-1

**Product weight**
- 0.22 kg

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**Environment**

**Product certifications**
- CSA
- GOST
- C-Tick
- GL
- UL

**Standards**
- EN/IEC 61000-4-11
- EN/IEC 61000-4-2 level 3
- EN/IEC 60068-2-27 Ea
- EN/IEC 61000-4-6 level 3
- EN/IEC 61000-4-5
- EN/IEC 61000-4-12
- EN/IEC 60068-2-6 Fc
- EN/IEC 61000-4-4 level 3
- EN/IEC 61000-4-3

**IP degree of protection**
- IP20 (terminal block) conforming to IEC 60529
- IP40 (front panel) conforming to IEC 60529

**Environmental characteristic**
- EMC directive conforming to EN/IEC 61000-6-2
- EMC directive conforming to EN/IEC 61000-6-3
- EMC directive conforming to EN/IEC 61000-6-4
- EMC directive conforming to EN/IEC 61131-2 zone B
- Low voltage directive conforming to EN/IEC 61131-2

**Disturbance radiated/conducted**
- Class B conforming to EN 55022-11 group 1

**Pollution degree**
- 2 conforming to EN/IEC 61131-2

**Ambient air temperature for operation**
- -20...+40 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2
- -20...+55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2

**Ambient air temperature for storage**
- -40...+70 °C

**Operating altitude**
- 2000 m

**Altitude transport**
- <= 3048 m

**Relative humidity**
- 95 % without condensation or dripping water

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**Contractual warranty**

**Warranty period**
- 18 months