Product data sheet

Characteristics

SR3XT101JD
Discrete I/O extension module, Zelio Logic, 10 I/O, 12 V DC

Main

<table>
<thead>
<tr>
<th>Range of Product</th>
<th>Zelio Logic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product or Component Type</td>
<td>Discrete I/O extension module</td>
</tr>
</tbody>
</table>

Complementary

<table>
<thead>
<tr>
<th>Number or control scheme lines</th>
<th>120 ladder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle time</td>
<td>6...90 ms</td>
</tr>
<tr>
<td>Backup time</td>
<td>10 years 77 °F (25 °C)</td>
</tr>
<tr>
<td>Clock drift</td>
<td>12 min/year 32...131 °F (0...55 °C)</td>
</tr>
<tr>
<td>Checks</td>
<td>Program memory on each power up</td>
</tr>
<tr>
<td>[Us] rated supply voltage</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Supply voltage limits</td>
<td>10.4...14.4 V</td>
</tr>
<tr>
<td>Reverse polarity protection</td>
<td>With</td>
</tr>
<tr>
<td>Discrete input number</td>
<td>6 EN/IEC 61131-2 type 1</td>
</tr>
<tr>
<td>Discrete input type</td>
<td>Resistive</td>
</tr>
<tr>
<td>Discrete input voltage</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Discrete input current</td>
<td>4 mA</td>
</tr>
<tr>
<td>Counting frequency</td>
<td>1 kHz discrete input</td>
</tr>
<tr>
<td>Voltage state 1 guaranteed</td>
<td>&gt;= 7 V IB...IG used as discrete input circuit</td>
</tr>
<tr>
<td></td>
<td>&gt;= 5.6 V I1...IA and IH...IR discrete input circuit</td>
</tr>
<tr>
<td>Voltage state 0 guaranteed</td>
<td>&lt;= 3 V IB...IG used as discrete input circuit</td>
</tr>
<tr>
<td></td>
<td>&lt;= 2.4 V I1...IA and IH...IR discrete input circuit</td>
</tr>
<tr>
<td>Current state 1 guaranteed</td>
<td>&gt;= 2 mA I1...IA and IH...IR discrete input circuit</td>
</tr>
<tr>
<td></td>
<td>&gt;= 0.5 mA IB...IG used as discrete input circuit</td>
</tr>
<tr>
<td>Current state 0 guaranteed</td>
<td>&lt;= 0.2 mA IB...IG used as discrete input circuit</td>
</tr>
<tr>
<td></td>
<td>&lt;= 0.9 mA I1...IA and IH...IR discrete input circuit</td>
</tr>
<tr>
<td>Input compatibility</td>
<td>3-wire proximity sensors PNP discrete input</td>
</tr>
<tr>
<td>Input impedance</td>
<td>14 kOhm IB...IG used as discrete input circuit</td>
</tr>
<tr>
<td></td>
<td>2.7 kOhm I1...IA and IH...IR discrete input circuit</td>
</tr>
<tr>
<td>Number of Outputs</td>
<td>4 relay</td>
</tr>
<tr>
<td>Output voltage limits</td>
<td>24...250 V AC relay output)</td>
</tr>
<tr>
<td></td>
<td>5...30 V DC relay output)</td>
</tr>
<tr>
<td>Contacts type and composition</td>
<td>NO relay output</td>
</tr>
<tr>
<td>Output thermal current</td>
<td>8 A for all 4 outputs relay output</td>
</tr>
<tr>
<td>Electrical durability</td>
<td>AC-15 500000 cycles 230 V, 0.9 A relay output EN/IEC 60947-5-1 AC-12 50000 cycles 230 V, 1.5 A relay output EN/IEC 60947-5-1 DC-13 500000 cycles 24 V, 0.6 A relay output EN/IEC 60947-5-1 DC-12 500000 cycles 24 V, 1.5 A relay output EN/IEC 60947-5-1</td>
</tr>
<tr>
<td>Switching capacity in mA</td>
<td>&gt;= 10 mA 12 V relay output)</td>
</tr>
<tr>
<td>Operating rate in Hz</td>
<td>0.1 Hz at le)relay output</td>
</tr>
<tr>
<td></td>
<td>10 Hz no load)relay output</td>
</tr>
<tr>
<td>Mechanical durability</td>
<td>100000000 cycles relay output</td>
</tr>
<tr>
<td>Feature</td>
<td>Details</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>[Uimp] rated impulse withstand voltage</td>
<td>4 kV EN/IEC 60947-1 and EN/IEC 60664-1</td>
</tr>
<tr>
<td>Response time</td>
<td>10 ms from state 0 to state 1) relay output 5 ms from state 1 to state 0) relay output</td>
</tr>
<tr>
<td>Connections - terminals</td>
<td>Screw terminals, 1 x 0.25…1 x 2.5 mm² AWG 24…AWG 14) flexible with cable end Screw terminals, 2 x 0.25…2 x 0.75 mm² AWG 24…AWG 18) flexible with cable end Screw terminals, 1 x 0.2…1 x 2.5 mm² AWG 25…AWG 14) semi-solid Screw terminals, 1 x 0.2…1 x 2.5 mm² AWG 25…AWG 14) solid Screw terminals, 2 x 0.2…2 x 1.5 mm² AWG 24…AWG 16) solid</td>
</tr>
<tr>
<td>Tightening torque</td>
<td>4.43 lbf/in (0.5 N.m)</td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>III EN/IEC 60664-1</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.44 lb (US) (0.2 kg)</td>
</tr>
<tr>
<td>Environment</td>
<td>GL, UL, CSA, C-tick, GOST</td>
</tr>
<tr>
<td>Standards</td>
<td>EN/IEC 60068-2-27 Ea EN/IEC 61000-4-5 EN/IEC 61000-4-12 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-3 EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-6 level 3</td>
</tr>
<tr>
<td>IP degree of protection</td>
<td>IP20 IEC 60529 terminal block) IP40 IEC 60529 front panel)</td>
</tr>
<tr>
<td>Environmental characteristic</td>
<td>EMC directive EN/IEC 61000-6-2 EMC directive EN/IEC 61000-6-3 EMC directive EN/IEC 61000-6-4 EMC directive EN/IEC 61131-2 zone B Low voltage directive EN/IEC 61131-2</td>
</tr>
<tr>
<td>Disturbance radiated/conducted</td>
<td>Class B EN 55022-11 group 1</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>2 EN/IEC 61131-2</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-4…104 °F (-20…40 °C) in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -4…131 °F (-20…55 °C) IEC 60068-2-1 and IEC 60068-2-2</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>6561.68 ft (2000 m)</td>
</tr>
<tr>
<td>Ambient Air Temperature for Storage</td>
<td>-40…158 °F (-40…70 °C)</td>
</tr>
<tr>
<td>Maximum altitude transport</td>
<td>10000.00 ft (3048 m)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>95 % without condensation or dripping water</td>
</tr>
<tr>
<td>Ordering and shipping details</td>
<td>22378-SR2,3 ZELIO 2 RELAYS</td>
</tr>
<tr>
<td>Category</td>
<td>22378-SR2,3 ZELIO 2 RELAYS</td>
</tr>
<tr>
<td>Discount Schedule</td>
<td>I</td>
</tr>
<tr>
<td>GTIN</td>
<td>3389119203944</td>
</tr>
<tr>
<td>Returnability</td>
<td>No</td>
</tr>
<tr>
<td>Country of origin</td>
<td>FR</td>
</tr>
<tr>
<td>Packing Units</td>
<td>PCE</td>
</tr>
<tr>
<td>Unit Type of Package 1</td>
<td>PCE</td>
</tr>
<tr>
<td>Number of Units in Package 1</td>
<td>1</td>
</tr>
<tr>
<td>Package 1 Height</td>
<td>2.68 in (6.8 cm)</td>
</tr>
<tr>
<td>Package 1 Width</td>
<td>3.54 in (9.0 cm)</td>
</tr>
<tr>
<td>Package 1 Length</td>
<td>3.94 in (10.0 cm)</td>
</tr>
<tr>
<td>Package 1 Weight</td>
<td>6.24 oz (177.0 g)</td>
</tr>
<tr>
<td>Unit Type of Package 2</td>
<td>S03</td>
</tr>
<tr>
<td>Number of Units in Package 2</td>
<td>30</td>
</tr>
<tr>
<td>Package 2 Height</td>
<td>11.81 in (30.0 cm)</td>
</tr>
<tr>
<td><strong>Package 2 Width</strong></td>
<td>11.81 in (30.0 cm)</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td><strong>Package 2 Length</strong></td>
<td>15.75 in (40.0 cm)</td>
</tr>
<tr>
<td><strong>Package 2 Weight</strong></td>
<td>13.23 lb(US) (6.0 kg)</td>
</tr>
</tbody>
</table>

**Offer Sustainability**

<table>
<thead>
<tr>
<th>Sustainable offer status</th>
<th>Green Premium product</th>
</tr>
</thead>
<tbody>
<tr>
<td>California proposition 65</td>
<td>WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></td>
</tr>
</tbody>
</table>

**REACH Regulation**

<table>
<thead>
<tr>
<th>EU RoHS Directive</th>
<th>Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury free</td>
<td>Yes</td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS Declaration</td>
</tr>
<tr>
<td>RoHS exemption information</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Environmental Disclosure**

<table>
<thead>
<tr>
<th>Environmental Disclosure</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circularity Profile</td>
<td>Product Environmental Profile</td>
</tr>
<tr>
<td>WEEE</td>
<td>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.</td>
</tr>
<tr>
<td>PVC free</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Contractual warranty**

| Warranty | 18 months |
I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail

Screw Fixing (Retractable Lugs)

<table>
<thead>
<tr>
<th>SR3</th>
<th>a (mm/in.)</th>
<th>G (mm/in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XT61**</td>
<td>35 / 1.38</td>
<td>25 / 0.98</td>
</tr>
<tr>
<td>XT101**</td>
<td>72 / 2.83</td>
<td>60 / 2.36</td>
</tr>
<tr>
<td>XT141**</td>
<td>72 / 2.83</td>
<td>60 / 2.36</td>
</tr>
</tbody>
</table>
Connection of Smart Relays on DC Supply, with Discrete I/O Extension Modules

SR3B•••JD + SR3XT•••JD, SR3B•••BD + SR3XT•••BD

(1) 1 A quick-blow fuse or circuit-breaker.
(2) Ca: Analog sensor / Ta: Analog transmitter.
(3) Recommended values: 2.2 kΩ / 0.5 W (10 kΩ max.)
(4) Screened cables, maximum length 10 m / 32.80 feet.
NOTE: QF and QG : 5 A for SR3XT141••
Compact and Modular Smart Relays

Electrical Durability of Relay Outputs
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

**DC-12 (1)**

![Graph](image)

X: Current (A)
Y: Millions of operating cycles
(1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, L/R ≤ 1 ms.

**DC-13 (1)**

![Graph](image)

X: Current (A)
Y: Millions of operating cycles
(1) DC-13: switching electromagnets, L/R ≤ 2 x (Ue x Ie) in ms, Ue: rated operational voltage, Ie: rated operational current (with a protection diode on the load, DC-12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles).
Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schneider Electric:
SR3XT101JD