

Product datasheet

Specifications



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

SR3XT101JD

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	12 V DC
Supply Voltage Limits	10.4...14.4 V
Reverse Polarity Protection	With
Discrete Input Number	6 conforming to IEC 61131-2 Type 1
Discrete Input Type	Resistive
Discrete Input Voltage	12 V DC
Discrete Input Current	4 mA
Counting Frequency	1 kHz for discrete input
Voltage State 1 Guaranteed	>= 7 V for IB...IG used as discrete input circuit >= 5.6 V for I1...IA and IH...IR discrete input circuit
Voltage State 0 Guaranteed	<= 3 V for IB...IG used as discrete input circuit <= 2.4 V for I1...IA and IH...IR discrete input circuit
Current State 1 Guaranteed	>= 2 mA (I1...IA and IH...IR discrete input circuit) >= 0.5 mA (IB...IG used as discrete input circuit)
Current State 0 Guaranteed	<= 0.2 mA (IB...IG used as discrete input circuit) <= 0.9 mA (I1...IA and IH...IR discrete input circuit)
Input Compatibility	3-wire proximity sensors PNP for discrete input
Input Impedance	14 kOhm for IB...IG used as discrete input circuit 2.7 kOhm for I1...IA and IH...IR discrete input circuit
Number Of Outputs	4 relay
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	8 A for all 4 outputs for 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

Electrical Durability	AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to IEC 60947-5-1 AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1 DC-13: 500000 cycles at 24 V, 0.6 A for relay output conforming to IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to IEC 60947-5-1
Switching Capacity In Ma	>= 10 mA at 12 V (relay output)
Operating Rate In Hz	0.1 Hz (at Ie) for relay output 10 Hz (no load) for relay output
Mechanical Durability	10000000 cycles for relay output
[Uimp] 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, 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
Tightening Torque	0.5 N.m
Overvoltage Category	III conforming to IEC 60664-1
Net Weight	0.2 kg

Environment

Product Certifications	GL UL CSA C-Tick GOST
Standards	IEC 60068-2-27 Ea IEC 61000-4-5 IEC 61000-4-12 IEC 61000-4-4 level 3 IEC 61000-4-2 level 3 IEC 61000-4-3 IEC 60068-2-6 Fc IEC 61000-4-11 IEC 61000-4-6 level 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 IEC 61000-6-2 EMC directive conforming to IEC 61000-6-3 EMC directive conforming to IEC 61000-6-4 EMC directive conforming to IEC 61131-2 zone B Low voltage directive conforming to IEC 61131-2
Disturbance Radiated/Conducted	Class B conforming to EN 55022-11 group 1
Pollution Degree	2 conforming to 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
Maximum Altitude Transport	3048 m
Relative Humidity	95 % without condensation or dripping water

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Height	6.800 cm
Package 1 Width	9.000 cm
Package 1 Length	10.000 cm
Package 1 Weight	181.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	30
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.911 kg

Contractual warranty

Warranty	18 months
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Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

<div><div>✓</div><div>Mercury Free</div></div>	
<div><div>✓</div><div>Rohs Exemption Information</div></div>	<div>Yes</div>
<div><div>✓</div><div>Pvc Free</div></div>	

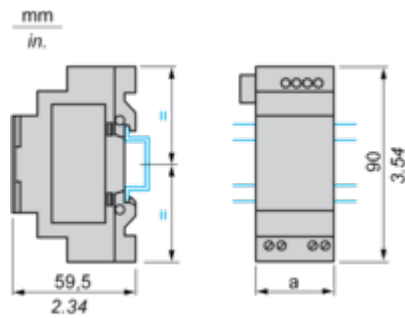
Certifications & Standards

Reach Regulation	<div>REACH Declaration</div>
Eu Rohs Directive	<div>Pro-active compliance (Product out of EU RoHS legal scope)</div>
China Rohs Regulation	<div>China RoHS declaration</div>
Environmental Disclosure	<div>Product Environmental Profile</div>
Weee	<div>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins</div>
Circularity Profile	<div>End of Life Information</div>

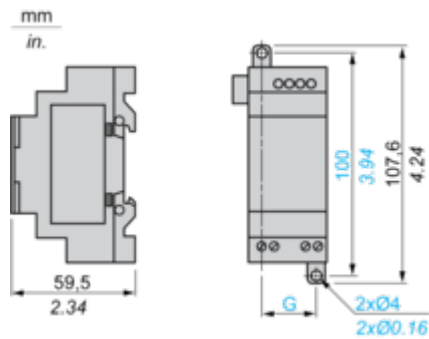
Dimensions Drawings

I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



Screw Fixing (Retractable Lugs)

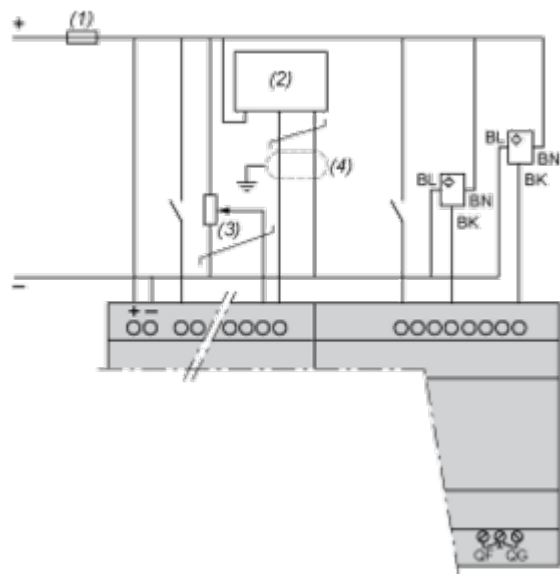


SR3	a (mm/in.)	G (mm/in.)
XT61••	35 / 1.38	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

Connections and Schema

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 k Ω / 0.5 W (10 k Ω max.)
- (4) Screened cables, maximum length 10 m / 32.80 feet.

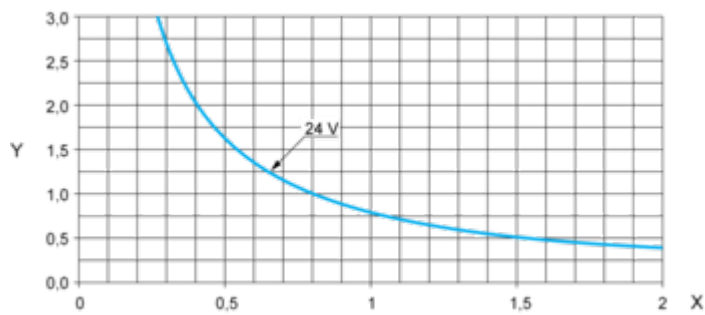
NOTE: QF and QG : 5 A for SR3XT141..

Performance Curves

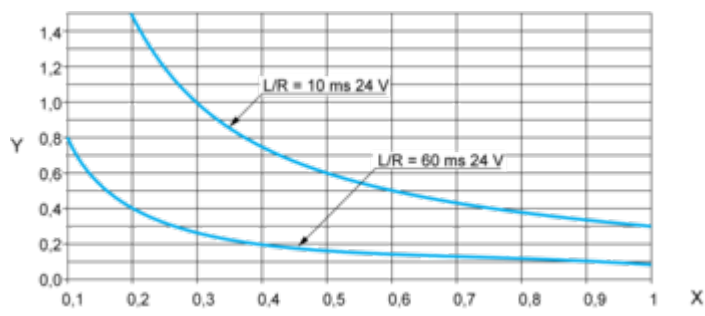
Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

(in millions of operating cycles, conforming to IEC/EN 60947-5-1)
DC-12 (1)



X: Current (A)
Y: Millions of operating cycles
(1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, $L/R \leq 1$ ms.
DC-13 (1)



X: Current (A)
Y: Millions of operating cycles
(1) DC-13: switching electromagnets, $L/R \leq 2 \times (U_e \times I_e)$ in ms, U_e : rated operational voltage, I_e : 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).