

# Product datasheet

Specifications



## discrete I/O extension module - 10 I O - 24 V DC - for Zelio Logic

Local distributor code:

389538219

SR3XT101BD

EAN Code: 3389110550085

### 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	6 conforming to 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 >= 15 V for IB...IG used as discrete input circuit
Voltage State 0 Guaranteed	<= 5 V for I1...IA and IH...IR discrete input circuit <= 5 V for IB...IG used as discrete input circuit
Current State 1 Guaranteed	>= 1.2 mA (IB...IG used as discrete input circuit) >= 2.2 mA (I1...IA and IH...IR discrete input circuit)
Current State 0 Guaranteed	<= 0.5 mA (IB...IG used as discrete input circuit) <= 0.75 mA (I1...IA and IH...IR discrete input circuit)
Input Compatibility	3-wire proximity sensors PNP for discrete input
Input Impedance	12 kOhm for IB...IG used as discrete input circuit 7.4 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 C-Tick UL GOST CSA
Standards	IEC 61000-4-4 level 3 IEC 61000-4-2 level 3 IEC 61000-4-3 IEC 61000-4-12 IEC 61000-4-11 IEC 60068-2-6 Fc IEC 60068-2-27 Ea IEC 61000-4-6 level 3 IEC 61000-4-5
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	6.8 cm
Package 1 Width	10 cm
Package 1 Length	9 cm
Package 1 Weight	179 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	30
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.71 kg

## Contractual warranty

Warranty	18 months
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Sustainability



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



Transparency   RoHS/REACH

Well-being performance

✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	

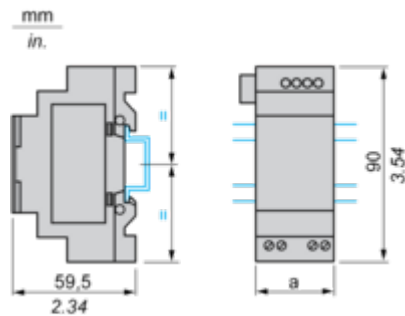
Certifications & Standards

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

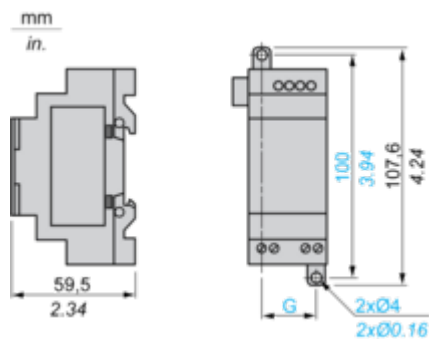
Dimensions Drawings

I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



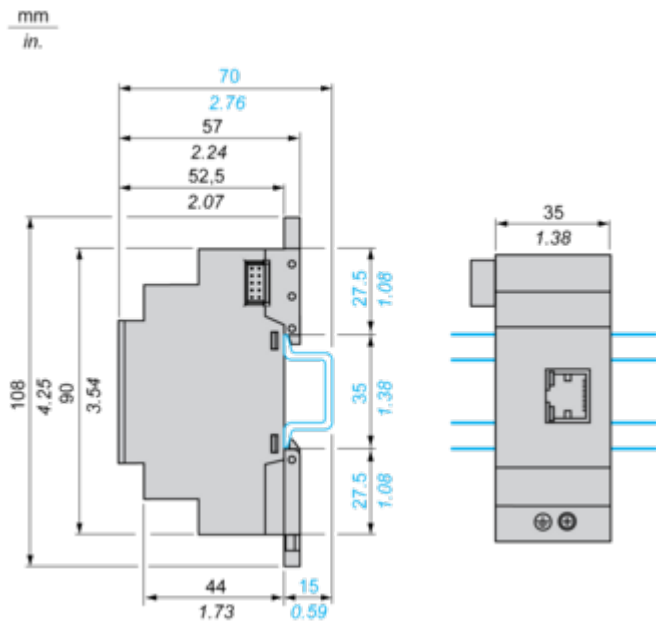
Screw Fixing (Retractable Lugs)



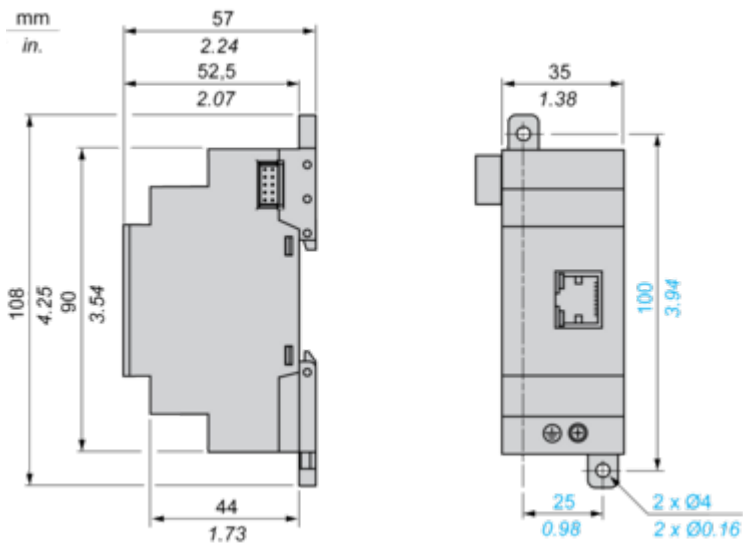
SR3	a (mm/in.)	G (mm/in.)
XT61••	35 / 1.38	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

Communication Modules

Rail Mounting



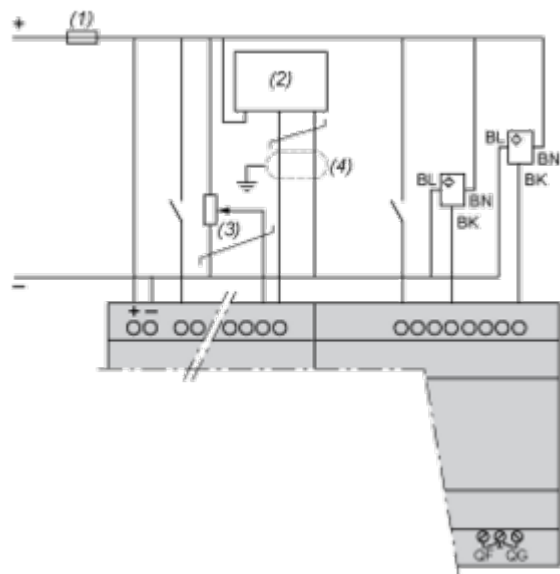
Screw Mounting (Retractable Lugs)



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

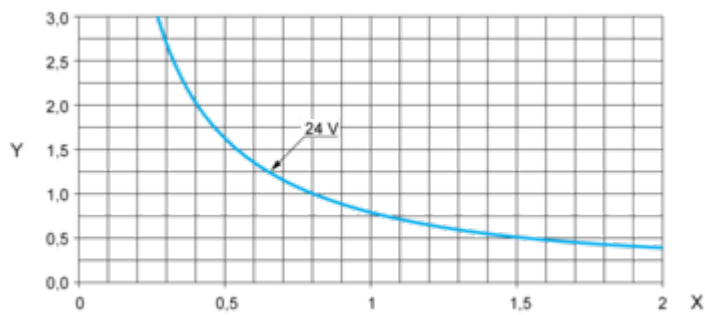
**NOTE:** QF and QG : 5 A for SR3XT141..

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)

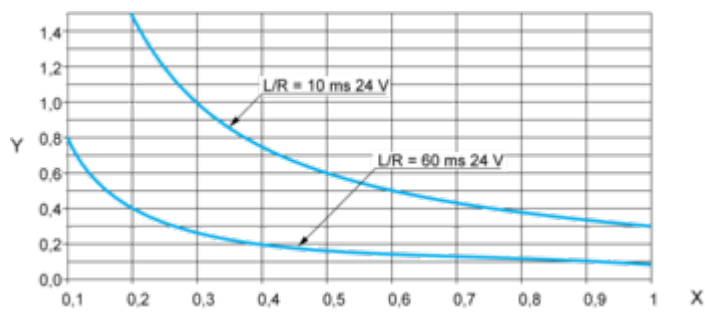


X: Current (A)

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).