# **Product datasheet**

Specification





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

Local distributor code:

389838456 SR3XT101B

EAN Code: 3389110550184

# Main

Range Of Product	Zelio Logic
Product Or Component Type	Discrete I/O extension module

# Complementary

120 with ladder programming	
690 ms	
10 years at 25 °C	
12 min/year at 055 °C	
Program memory on each power up	
24 V AC	
20.428.8 V	
50/60 Hz	
With	
6	
24 V AC	
4.4 mA	
4753 Hz 5763 Hz	
>= 14 V for discrete input	
<= 5 V for discrete input	
>= 2 mA (discrete input)	
<= 0.5 mA (discrete input)	
4.6 kOhm for discrete input	
4 relay	
530 V DC (relay output) 24250 V AC	
NO for relay output	
8 A for all 4 outputs for relay output	
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	
>= 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	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	50 ms with ladder programming (from state 0 to state 1) for discrete input 50 ms with ladder programming (from state 1 to state 0) for discrete input 50255 ms with FBD programming (from state 0 to state 1) for discrete input 50255 ms with FBD programming (from state 1 to state 0) for discrete input 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 0.251 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.252 x 0.75 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 25AWG 14) semi-solid Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 25AWG 14) solid Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) solid		
Tightening Torque	0.5 N.m		
Overvoltage Category	III conforming to IEC 60664-1		
Net Weight	0.2 kg		
Environment			
Product Certifications	GOST GL C-Tick CSA UL		
Standards	IEC 61000-4-2 level 3 IEC 61000-4-5 IEC 61000-4-6 level 3 IEC 60068-2-6 Fc IEC 60068-2-27 Ea IEC 61000-4-11 IEC 61000-4-3 IEC 61000-4-12 IEC 61000-4-4 level 3		
p 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	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2		
Ambient Air Temperature For Storage	-4070 °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	6.500 cm		

Package 1 Width	9.000 cm
Package 1 Length	10.000 cm
Package 1 Weight	182.000 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	5.945 kg

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

# Well-being performance

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
<b>②</b>	Pvc Free	

## **Certifications & Standards**

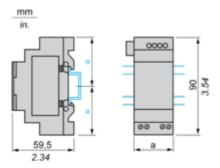
Circularity Profile	End of Life Information	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Environmental Disclosure	Product Environmental Profile	
China Rohs Regulation	China RoHS declaration	
Eu Rohs Directive	Pro-active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

## **SR3XT101B**

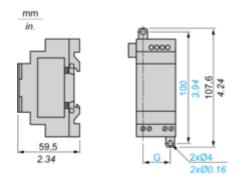
# **Dimensions Drawings**

## I/O Extension Modules

## Mounting on 35 mm/1.38 in. DIN Rail



## Screw Fixing (Retractable Lugs)

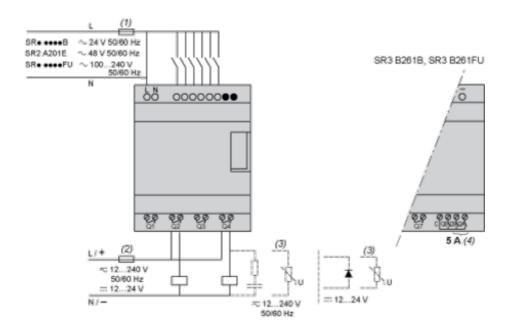


SR3	a (mm/in.)	G (mm/in.)
XT61••	35 / 1.38	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

#### Connections and Schema

#### **Connection of Smart Relays on AC Supply**

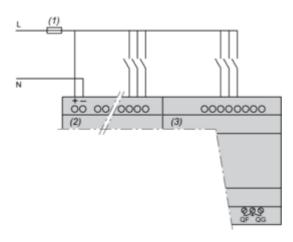
#### SR --- 1B, SR --- 1FU



- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) Fuse or circuit-breaker.
- (3) Inductive load.
- (4) Q9 and QA: 5 A (max. current in terminal C: 10 A).

#### With Discrete I/O Extension Module

SR3B•••B + SR3XT•••B, SR3B•••FU + SR3XT•••FU



(1) 1 A quick-blow fuse or circuit-breaker.

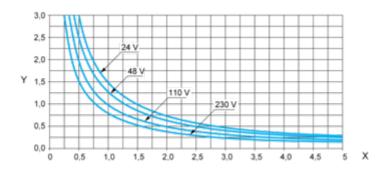
NOTE: QF and QG: 5 A for SR3XT141..

#### Performance Curves

#### **Compact and Modular Smart Relays**

#### **Electrical Durability of Relay Outputs**

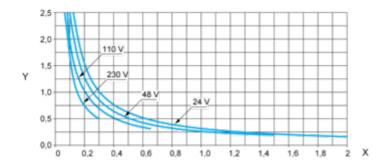
(in millions of operating cycles, conforming to IEC/EN 60947-5-1) AC-12 (1)



X: Current (A)

Y: Millions of operating cycles

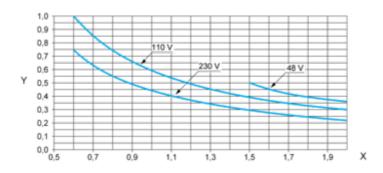
(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads,  $\cos \ge 0.9$ . AC-14 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads ≤ 72 VA, make: cos = 0.3, break: cos = 0.3. AC-15 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-15: switching electromagnetic loads ≥ 72 VA, make: cos = 0.7, break: cos = 0.4.