Product data sheet Characteristics

SR3XT101BD

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



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 DC	
19.230 V	
With	
6 conforming to EN/IEC 61131-2 type 1	
Resistive	
24 V DC	
4 mA	
1 kHz for discrete input	
>= 15 V for IBIG used as discrete input circuit >= 15 V for I1IA and IHIR discrete input circuit	
<= 5 V for IBIG used as discrete input circuit <= 5 V for I1IA and IHIR discrete input circuit	
>= 2.2 mA for I1IA and IHIR discrete input circuit >= 1.2 mA for IBIG used as discrete input circuit	
< 0.75 mA for I1IA and IHIR discrete input circuit < 0.5 mA for IBIG used as discrete input circuit	
3-wire proximity sensors PNP (discrete input)	
7.4 kOhm (I1IA and IHIR discrete input circuit) 12 kOhm (IBIG used as discrete input circuit)	
4 relay output(s)	
530 V DC (relay output) 24250 V AC (relay output)	
NO for relay output	
8 A for all 4 outputs (relay output)	
500000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 1.5 A (AC-12) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 230 V, 0.9 A (AC-15) 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	10 Hz (no load) for relay output 0.1 Hz (at le) for relay output	
Mechanical durability	10000000 cycles (relay output)	
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1	
Response time	5 ms (from state 1 to state 0) for relay output 10 ms (from state 0 to state 1) for relay output	
Connections - terminals	Screw terminals, solid cable 2 x 0.22 x 1.5 mm² / AWG 24AWG 16 AWG Screw terminals, solid cable 1 x 0.21 x 2.5 mm² / AWG 25AWG 14 AWG Screw terminals, semi-solid cable 1 x 0.21 x 2.5 mm² / AWG 25AWG 14 AWG Screw terminals, flexible cable with cable end 2 x 0.252 x 0.75 mm² / AWG 24AWG 18 AWG Screw terminals, flexible cable with cable end 1 x 0.251 x 2.5 mm² / AWG 24AWG 14 AWG	
Tightening torque	0.5 N.m	
Overvoltage category	III conforming to EN/IEC 60664-1	
Product weight	0.2 kg	
Environment		
Product certifications	CSA C-Tick GL GOST UL	
Standards	EN/IEC 60068-2-27 Ea EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-12 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-6 level 3	
IP degree of protection	IP40 (front panel) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529	
Environmental characteristic	Low voltage directive conforming to EN/IEC 61131-2 EMC directive conforming to EN/IEC 61131-2 zone B EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-2	
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	-2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2 -2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2	
	00008-2-2	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for storage Operating altitude		
<u>`</u>	-4070 °C	

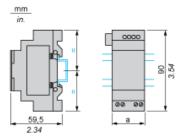


Product data sheet Dimensions Drawings

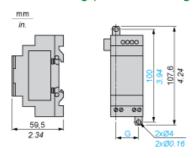
SR3XT101BD

I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



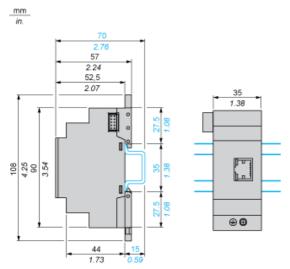
Screw Fixing (Retractable Lugs)



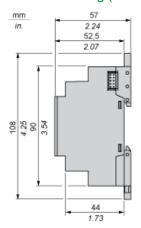
SR3	a (mm/in.)	G (mm/in.)
XT61••	3,5 / 0.13	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

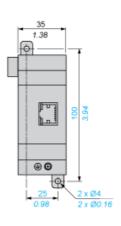
Communication Modules

Rail Mounting



Screw Mounting (Retractable Lugs)

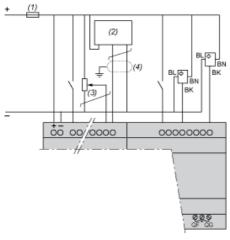




SR3XT101BD

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: $2.2 \text{ k}\Omega / 0.5 \text{ W}$ (10 k Ω max.)
- (4) Screened cables, maximum length 10 m / 32.80 feet.

QF and QG: 5 A for SR3XT141..

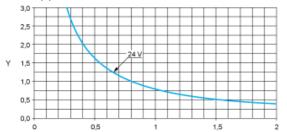
SR3XT101BD

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

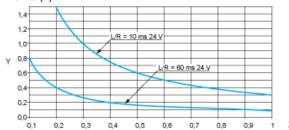
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

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 ≤ 1 ms.

DC-13 (1)



- X: Current (A)
- Y: Millions of operating cycles
- (1) DC-13: switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: 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).