# Product data sheet Characteristics

## SR3XT101JD

discrete I/O extension module - 10 I O - 12 V DC - for Zelio Logic

#### Main

Range of product	Zelio Logic	_
Product or component type	Discrete I/O extension module	

#### Complementary

Complementary		
Number or control scheme lines	120 with ladder programming	
Cycle time	690 ms	
Backup time	10 years at 25 °C	
Clock drift	12 min/year at 055 °C	
Checks	Program memory on each power up	
[Us] rated supply voltage	12 V	
Supply voltage limits	10.414.4 V	
Reverse polarity protection	With	
Discrete input number	6 conforming to EN/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 state1 guaranteed	>= 7 V for IBIG used as discrete input circuit >= 5.6 V for I1IA and IHIR discrete input circuit	
Voltage state 0 guaranteed	<= 3 V for IBIG used as discrete input circuit <= 2.4 V for I1IA and IHIR discrete input circuit	
Current state 1 guaranteed	>= 2 mA for I1IA and IHIR discrete input circuit >= 0.5 mA for IBIG used as discrete input circuit	
Current state 0 guaranteed	< 0.2 mA for IBIG used as discrete input circuit < 0.9 mA for I1IA and IHIR discrete input circuit	
nput compatibility	3-wire proximity sensors PNP (discrete input)	
nput impedance	14 kOhm (IBIG used as discrete input circuit) 2.7 kOhm (I1IA and IHIR discrete input circuit)	
Number of outputs	4 relay output(s)	
Output voltage limits	24250 V AC (relay output) 530 V DC (relay output)	
Contacts type and composition	NO for relay output	
Output thermal current	8 A for all 4 outputs (relay output)	
Electrical durability	500000 cycles at 230 V, 0.9 A (AC-15) 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 24 V, 0.6 A (DC-13) for relay output conforming to EN/IEC 60947-5-1 500000 cycles at 24 V, 1.5 A (DC-12) for relay output conforming to EN/IEC 60947-5-1	
Switching capacity in mA	>= 10 mA at 12 V (relay output)	

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Operating rate in Hz	0.1 Hz (at le) for relay output 10 Hz (no load) 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	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, flexible cable with cable end 1 x 0.251 x 2.5 mm²/2414 AWG Screw terminals, flexible cable with cable end 2 x 0.252 x 0.75 mm²/2418 AWG Screw terminals, semi-solid cable 1 x 0.21 x 2.5 mm²/2514 AWG Screw terminals, solid cable 1 x 0.21 x 2.5 mm²/2514 AWG Screw terminals, solid cable 2 x 0.22 x 1.5 mm²/2416 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	IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529	
Environmental characteristic	EMC directive conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61131-2 zone B Low voltage directive conforming to EN/IEC 61131-2	
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	-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	
Altitude transport	<= 3048 m	

95 % without condensation or dripping water

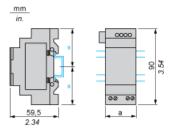
Relative humidity

# Product data sheet Dimensions Drawings

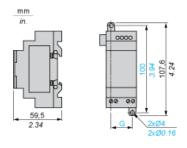
# SR3XT101JD

#### I/O Extension Modules

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



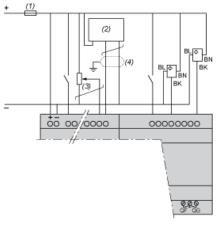
## Screw Fixing (Retractable Lugs)



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

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

QF and QG: 5 A for SR3XT141.

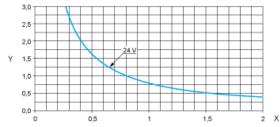
## SR3XT101JD

### Compact and Modular Smart Relays

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

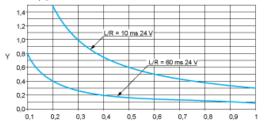
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

#### DC-12 (1)



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

#### DC-13 (1)



- Current (A)
- X: Y: Millions of operating cycles
- 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).