Product data sheet Characteristics

SR3XT141JD

discrete IO extension module, Zelio Logic SR2 SR3, 14 IO, 12V DC





Main

Range of Product	Zelio Logic	
Product or Component Type	Discrete I/O extension module	

Complementary

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Number or control scheme lines	120 ladder	
Cycle time	690 ms	
Backup time	10 years 77 °F (25 °C)	
Clock drift	12 min/year 32131 °F (055 °C)	
Checks	Program memory on each power up	
[Us] rated supply voltage	12 V DC	
Supply voltage limits	10.414.4 V	
Reverse polarity protection	With	
Discrete input number	8 IEC 61131-2 Type 1	
Discrete input type	Resistive	
Discrete input voltage	12 V DC	
Discrete input current	4 mA	
Counting frequency	1 kHz discrete input	
Voltage state 1 guaranteed	>= 7 V IBIG used as discrete input circuit >= 5.6 V I1IA and IHIR discrete input circuit	
Voltage state 0 guaranteed	<= 3 V IBIG used as discrete input circuit <= 2.4 V I1IA and IHIR discrete input circuit	
Current state 1 guaranteed	>= 2 mA I1IA and IHIR discrete input circuit) >= 0.5 mA IBIG used as discrete input circuit)	
Current state 0 guaranteed	<= 0.2 mA IBIG used as discrete input circuit) <= 0.9 mA I1IA and IHIR discrete input circuit)	
Input compatibility	3-wire proximity sensors PNP discrete input	
Input impedance	14 kOhm IBIG used as discrete input circuit 2.7 kOhm I1IA and IHIR discrete input circuit	
Number of Outputs	6 relay	
Output voltage limits	24250 V AC relay output) 530 V DC relay output)	
Contacts type and composition	NO relay output	
Output thermal current	5 A for 2 outputs relay output 8 A for 4 outputs relay output	
Electrical durability	AC-15 500000 cycles 230 V, 0.9 A relay output IEC 60947-5-1 AC-12 500000 cycles 230 V, 1.5 A relay output IEC 60947-5-1 DC-13 500000 cycles 24 V, 0.6 A relay output IEC 60947-5-1 DC-12 500000 cycles 24 V, 1.5 A relay output IEC 60947-5-1	
Switching capacity in mA	>= 10 mA 12 V relay output)	
Operating rate in Hz	0.1 Hz at le)relay output 10 Hz no load)relay output	

Mechanical durability	10000000 cycles relay output	
[Uimp] rated impulse withstand voltage	4 kV EN/IEC 60947-1 and EN/IEC 60664-1	
Response time	10 ms from state 0 to state 1)relay output 5 ms from state 1 to state 0)relay output	
Connections - terminals Screw terminals, 1 x 0.251 x 2.5 mm² AWG 24AWG 14) flexible end Screw terminals, 2 x 0.252 x 0.75 mm² AWG 24AWG 18) flexiond Screw terminals, 1 x 0.21 x 2.5 mm² AWG 25AWG 14) semi-seminals, 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	4.43 lbf.in (0.5 N.m)	
Overvoltage category	III IEC 60664-1	
Net Weight	0.49 lb(US) (0.22 kg)	

Environment

Product Certifications	GL[RETURN]UL[RETURN]GOST[RETURN]C-tick[RETURN]CSA	
Standards	IEC 61000-4-6 level 3 IEC 61000-4-3 IEC 61000-4-2 level 3 IEC 61000-4-4 level 3 IEC 60068-2-27 Ea IEC 61000-4-12 IEC 60068-2-6 Fc IEC 61000-4-11 IEC 61000-4-5	
IP degree of protection	IP20 IEC 60529 terminal block) IP40 IEC 60529 front panel)	
Environmental characteristic	EMC directive IEC 61000-6-2 EMC directive IEC 61000-6-3 EMC directive IEC 61000-6-4 EMC directive IEC 61131-2 zone B Low voltage directive IEC 61131-2	
Disturbance radiated/conducted	Class B EN 55022-11 group 1	
Pollution degree	2 IEC 61131-2	
Ambient air temperature for operation	-4104 °F (-2040 °C) in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -4131 °F (-2055 °C) IEC 60068-2-1 and IEC 60068-2-2	
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)	
Operating altitude	6561.68 ft (2000 m)	
Maximum altitude transport	10000.00 ft (3048 m)	
Relative Humidity	95 % without condensation or dripping water	

Ordering and shipping details

Category	22378-SR2,3 ZELIO 2 RELAYS	
Discount Schedule	1	
GTIN	3389119203951	
Returnability	No	
Country of origin	FR	

Packing Units

PCE
1
2.68 in (6.8 cm)
3.54 in (9.0 cm)
3.94 in (10.0 cm)
6.95 oz (197.0 g)
S03
30
11.81 in (30.0 cm)
11.81 in (30.0 cm)

Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	14.48 lb(US) (6.568 kg)	
Offer Sustainability		
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
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.	
PVC free	Yes	

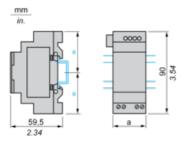
Contractual warranty

Warranty	18 months

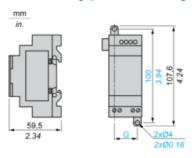
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I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



Screw Fixing (Retractable Lugs)



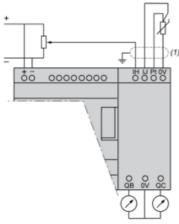
SR3	a (mm/in.)	G (mm/in.)
XT61••	35 / 1.38	25 / 0.98
XT101••	72 / 2.83	60 / 2.36
XT141••	72 / 2.83	60 / 2.36

Connection of Smart Relays on DC Supply, with Analog I/O Extension Module

Connection Alternatives

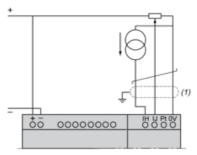
0 - 10 V	0 - 20 mA	Pt100
2	0	0
1	1	0
0	2	0
1	0	1
0	1	1

Application Example with 1 x 0 - 10 V Input and 1 x Pt100 Input



(1) Screened cables, maximum length 10 m/32.80 ft.

Application Example with 1 x 0 - 20 mA Input and 1 x 0 - 10 V Input



(1) Screened cables, maximum length 10 m/32.80 ft.

Product data sheet Performance Curves

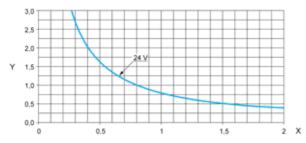
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Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

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

DC-12 (1)

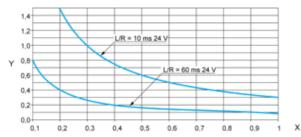


X: Current (A)

Y: Millions of operating cycles

(1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, $L/R \le 1$ ms.

DC-13 (1)



X: Current (A)

Y: Millions of operating cycles

(1) DC-13: switching electromagnets, $L/R \le 2 \times (Ue \times Ie)$ in ms, Ue: rated operational voltage, Ie: 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).