Product data sheet Characteristics

SR2A101BD

compact smart relay, Zelio Logic SR2 SR3, 10 IO, 24V DC, no clock, display





Main

Mani		
Range of Product	Zelio Logic	
Product or Component Type	Compact smart relay	

Complementary

Local display	With
Number or control scheme lines	0240 ladder
Cycle time	690 ms
Backup time	10 years 77 °F (25 °C)
Clock drift	12 min/year 32131 °F (055 °C) 6 s/month 77 °F (25 °C)
Checks	Program memory on each power up
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.230 V
Maximum supply current	100 mA without extension)
Power dissipation in W	3 W without extension
Reverse polarity protection	With
Discrete input number	6 IEC 61131-2 Type 1
Discrete input type	Resistive
Discrete input voltage	24 V DC
Discrete input current	4 mA
Counting frequency	1 kHz discrete input
Voltage state 1 guaranteed	>= 15 V I1IA and IHIR discrete input circuit >= 15 V IBIG used as discrete input circuit
Voltage state 0 guaranteed	<= 5 V I1IA and IHIR discrete input circuit <= 5 V IBIG used as discrete input circuit
Current state 1 guaranteed	>= 1.2 mA IBIG used as discrete input circuit) >= 2.2 mA I1IA and IHIR discrete input circuit)
Current state 0 guaranteed	<= 0.5 mA IBIG used as discrete input circuit) <= 0.75 mA I1IA and IHIR discrete input circuit)
Input compatibility	3-wire proximity sensors PNP discrete input
Analogue input number	0
Input impedance	12 kOhm IBIG used as analogue input circuit 12 kOhm IBIG used as discrete input circuit 7.4 kOhm I1IA and IHIR discrete input circuit
Number of Outputs	4 relay
Output voltage limits	24250 V AC relay output) 530 V DC relay output)
Contacts type and composition	NO relay output
Output thermal current	8 A for all 4 outputs relay output

Electrical durability	AC-12 500000 cycles 230 V, 1.5 A relay output IEC 60947-5-1
	AC-15 500000 cycles 230 V, 0.9 A relay output IEC 60947-5-1
	DC-12 500000 cycles 24 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
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
Clock	Without
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 0.21 x 2.5 mm² AWG 25AWG 14) semi-solid
	Screw terminals, 1 x 0.21 x 2.5 mm ² AWG 25AWG 14) solid
	Screw terminals, 1 x 0.251 x 2.5 mm² AWG 24AWG 14) flexible with cable end
	Screw terminals, 2 x 0.22 x 1.5 mm ² AWG 24AWG 16) solid
	Screw terminals, 2 x 0.252 x 0.75 mm² AWG 24AWG 18) flexible with cable
	end
Tightening torque	4.43 lbf.in (0.5 N.m)
Overvoltage category	III IEC 60664-1
Net Weight	0.55 lb(US) (0.25 kg)

Environment

Immunity to microbreaks	1 ms
Product Certifications	CSA[RETURN]UL[RETURN]C-tick[RETURN]GL[RETURN]GOST
Standards	IEC 61000-4-4 level 3 IEC 60068-2-27 Ea IEC 61000-4-3 IEC 61000-4-11 IEC 61000-4-12 IEC 60068-2-6 Fc IEC 61000-4-6 level 3 IEC 61000-4-5 IEC 61000-4-2 level 3
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	I
GTIN	3389110547535
Returnability	Yes
Country of origin	FR

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.76 in (7 cm)
Package 1 Width	3.94 in (10 cm)
Package 1 Length	3.54 in (9 cm)
Package 1 Weight	8.18 oz (232 g)
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	16.42 lb(US) (7.45 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		

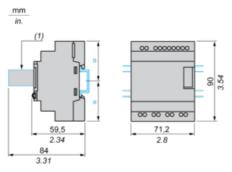
Contractual warranty

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Warranty	18 months	

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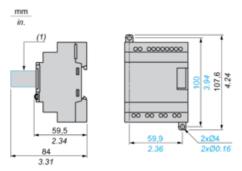
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



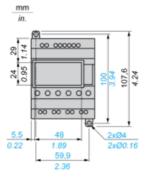
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



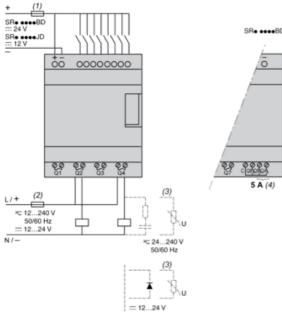
(1) With SR2USB01 or SR2BTC01

Position of Display



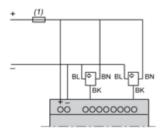
Compact and Modular Smart Relays

Connection of Smart Relays on DC Supply



- (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).

Discrete Input Used for 3-Wire Sensors



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

Product data sheet Performance Curves

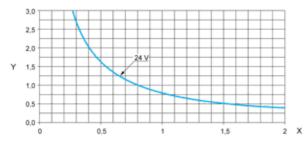
SR2A101BD

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)

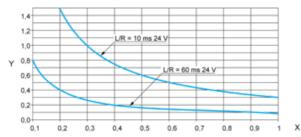


X: Current (A)

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, $L/R \le 2 \times (Ue \times Ie)$ 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).