Bảng thông số sản phẩm

Thông số kỹ thuật





compact smart relay, Zelio Logic SR2 SR3, 12 IO, 12V DC, clock, display

SR2B121JD

Main

Range of product	Zelio Logic
product or component type	Compact smart relay

Complementary

Complementary	
Local display	With
Number or control scheme lines	0240 with ladder programming 0500 with FBD programming
Cycle time	690 ms
Backup time	10 years at 25 °C
Clock drift	12 min/year at 055 °C 6 s/month at 25 °C
Checks	Program memory on each power up
[Us] rated supply voltage	12 V DC
Supply voltage limits	10.414.4 V
Maximum supply current	120 mA (without extension)
Power dissipation in W	1.5 W without extension
Reverse polarity protection	With
Discrete input number	8 conforming to 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 state 1 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 (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 for discrete input
Analogue input number	4
Analogue input type	Common mode
Analogue input range	010 V 012 V

Maximum permissible voltage	14.4 V for analogue input circuit
Analogue input resolution	8 bits at maximum voltage
LSB value	39 mV for analogue input circuit
Conversion time	Smart relay cycle time for analogue input circuit
Conversion error	+/- 5 % at 25 °C for analogue input circuit +/- 6.2 % at 55 °C for analogue input circuit
Repeat accuracy	+/- 2 % at 55 °C for analogue input circuit
Operating distance	10 m between stations, with screened cable (sensor not isolated) for analogue input circuit
Input impedance	14 kOhm for IBIG used as analogue input circuit 14 kOhm for IBIG used as discrete input circuit 2.7 kOhm for 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 for relay output
Output thermal current	8 A for all 4 outputs for relay output
Electrical durability	AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1 AC-15: 500000 cycles at 230 V, 0.9 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 DC-13: 500000 cycles at 24 V, 0.6 A for relay output conforming to IEC 60947-5-1
Switching capacity in mA	>= 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
Clock	With
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, 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, 1 x 0.251 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) solid Screw terminals, 2 x 0.252 x 0.75 mm² (AWG 24AWG 18) flexible with cable end
Tightening torque	0.5 N.m
Overvoltage category	III conforming to IEC 60664-1
net weight	0.25 kg

Environment

Immunity to microbreaks	1 ms repeated 20 times
Product certifications	C-Tick
	UL
	CSA
	GOST
	el

Standards	IEC 61000-4-11 IEC 60068-2-6 Fc IEC 61000-4-12 IEC 61000-4-2 level 3 IEC 61000-4-5 IEC 61000-4-3 IEC 61000-4-4 level 3 IEC 60068-2-27 Ea 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 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	6.8 cm
Package 1 Width	9.0 cm
Package 1 Length	10.0 cm
Package 1 Weight	239.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.775 kg

Contractual warranty

Warranty 18 months



Nhãn **Green PremiumTM** là cam kết của Schneider Electric trong việc cung cấp sản phẩm với hiệu suất môi trường tốt nhất. Green Premium cam kết tuân thủ các quy định mới nhất, minh bạch về tác động môi trường, cũng như các sản phẩm tuần hoàn và CO_2 thấp.

Hướng dẫn đánh giá tính bền vững của sản phẩm là tài liệu kỹ thuật phổ thông giúp làm rõ các tiêu chuẩn nhãn sinh thái toàn cầu và cách diễn giải việc khai báo môi trường.

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Hướng dẫn đánh giá về sự bền vững của sản phẩm >





Minh bach RoHS/REACh

Hiệu suất sức khoẻ

②	Mercury Free	
⊘	Rohs Exemption Information	Yes
②	Pvc Free	

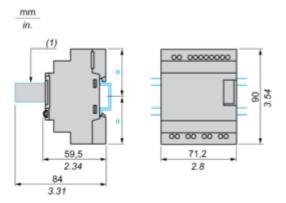
Chứng nhận & Tiêu chuẩn

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

Dimensions Drawings

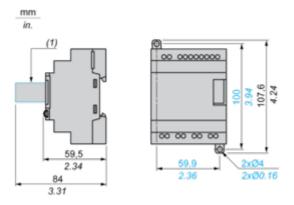
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



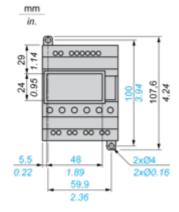
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

Position of Display

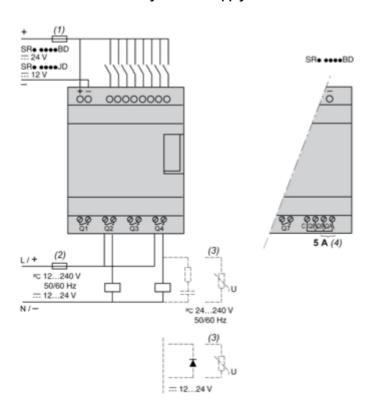


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Connections and Schema

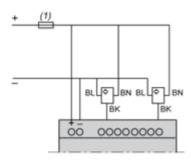
Compact and Modular Smart Relays

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.

Bảng thông số sản phẩm

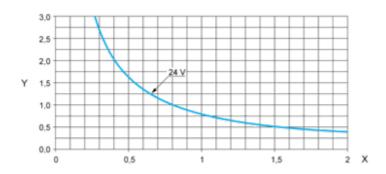
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Performance Curves

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)

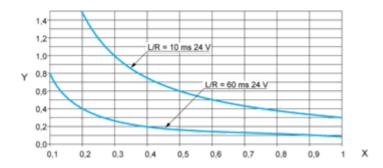


X: Current (A)

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).