Bảng thông số sản phẩm

Thông số kỹ thuật



compact smart relay, Zelio Logic SR2 SR3, 12 IO, 24V DC, clock, no display

SR2E121BD

Main

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

Complementary

<u> </u>		
Local display	Without	
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	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	8 conforming to IEC 61131-2 Type 1	
Discrete input type	Resistive	
Discrete input voltage	24 V DC	
Discrete input current	4 mA	
Counting frequency	1 kHz for discrete input	
Voltage state 1 guaranteed	>= 15 V for I1IA and IHIR discrete input circuit >= 15 V for IBIG used as discrete input circuit	
Voltage state 0 guaranteed	<= 5 V for I1IA and IHIR discrete input circuit <= 5 V for 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 for discrete input	
Analogue input number	4	
Analogue input type	Common mode	
Analogue input range	024 V 010 V	

Temperature probe type	NTC 10k at 25 °C NTC 1000k at 25 °C KTY81 210/220/221/222/250 Pt 500	
Maximum permissible voltage	30 V for analogue input circuit	
Analogue input resolution	8 bits	
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	12 kOhm for IBIG used as analogue input circuit 12 kOhm for IBIG used as discrete input circuit 7.4 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	0.22 kg	
Environment		
Immunity to microbreaks	1 ms	
Product certifications	GL CSA UL GOST C-Tick	

Standards	IEC 61000-4-11
	IEC 61000-4-12
	IEC 61000-4-3
	IEC 61000-4-6 level 3
	IEC 61000-4-2 level 3
	IEC 60068-2-6 Fc
	IEC 61000-4-4 level 3
	IEC 61000-4-5
	IEC 60068-2-27 Ea
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	6.800 cm
Package 1 Width	9.000 cm
Package 1 Length	10.000 cm
Package 1 Weight	206.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.778 kg

Contractual warranty

Warranty 18 months



Schneider Electric nhắm đến việc đạt được vị trí Net Zero vào năm 2050 thông qua các quan hệ đối tác chuỗi cung ứng, giảm vật liệu tác động và sự tuần hoàn thông qua chiến dịch "Use Better, Use Longer, Use Again" đang diễn ra của chúng tôi để kéo dài tuổi thọ sản phẩm và khả năng tái chế.

Dữ liệu môi trường đã giải thích >

Cách chúng tôi đánh giá tính bền vững của sản phẩm \geq

∅ Ånh hưởng môi trường	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	115
Environmental Disclosure	Product Environmental Profile

Use Better

ଞ Vật liệu và Bao bì	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Eee2fc35-1620-4b70-b1d5-206e9240044e
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

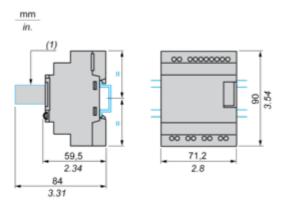
○ Đóng gói lại và tái sản xuất	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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Dimensions Drawings

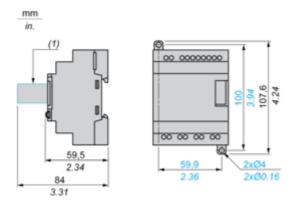
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



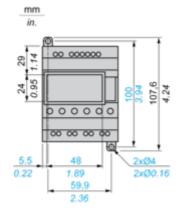
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

Position of Display



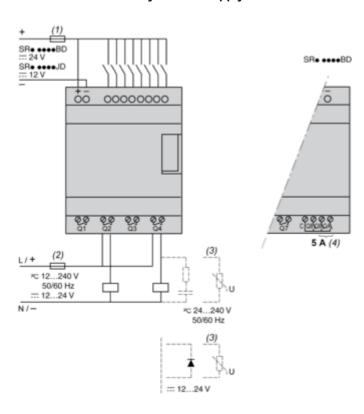
Bảng thông số sản phẩm

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Connections and Schema

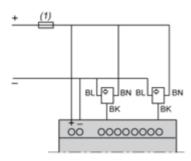
Compact and Modular Smart Relays

Connection of Smart Relays on DC Supply



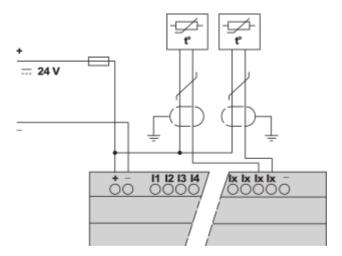
- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) Fuse or circuit-breaker.
- (3) Inductive load.
- (4) Q9 and QA: 5 A (max. current in terminal C: 10 A).

Discrete Input Used for 3-Wire Sensors



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

Connection of Thermistor Input on DC Supply



NOTE: Ix = IB...IG

Bảng thông số sản phẩm

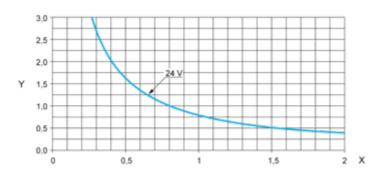
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Performance Curves

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)

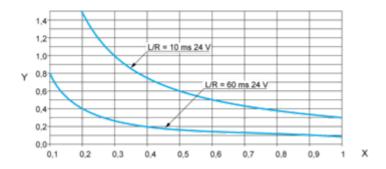


X: Current (A)

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).