Product datasheet Characteristics

SR2B201JD

compact smart relay Zelio Logic - 20 I O - 12 VDC - clock - display

Price*: 159.33 GBP



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

Complementary		Š	
Local display	With	<u> </u>	
Number or control scheme lines	0500 with FBD programming 0240 with ladder programming		
Cycle time	690 ms	, ,	
Backup time	10 years at 25 °C		
Clock drift	6 s/month at 25 °C 12 min/year at 055 °C	to the first of th	
Checks	Program memory on each power up	<u> </u>	
[Us] rated supply voltage	12 V DC	hot is used for detaining	
Supply voltage limits	10.414.4 V		
Supply current	200 mA (without extension)	2.0	
Power dissipation in W	2.5 W without extension	0	
Reverse polarity protection	With		
Discrete input number	12 conforming to EN/IEC 61131-2 type 1	÷	
Discrete input type	Resistive	<u>.</u>	
Discrete input voltage	12 V DC	<u> </u>	
Discrete input current	4 mA	cı hetitir Artının for	
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	is or infantable	
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	<= 0.9 mA for I1IA and IHIR discrete input circuit <= 0.9 mA for IBIG used as discrete input circuit		
Input compatibility	3-wire proximity sensors PNP (discrete input)		
Analogue input number	6	daimar This documentation	

Analogue input type	Common mode	
Analogue input range	010 V 012 V	
Maximum permissible voltage	14.4 V (analogue input circuit)	
Analogue input resolution	8 bits at maximum voltage	
LSB value	39 mV (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 (IBIG used as analogue input circuit) 14 kOhm (IBIG used as discrete input circuit) 2.7 kOhm (I1IA and IHIR discrete input circuit)	
Number of outputs	8 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 8 outputs (relay output)	
Electrical durability	500000 cycles AC-12 at 230 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-15 at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-12 at 24 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-13 at 24 V, 0.6 A for relay output conforming to EN/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 (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, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 25AWG 14 semi-solid Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 25AWG 14 solid Screw terminals, clamping capacity: 1 x 0.251 x 2.5 mm² AWG 24AWG 14 flexible with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm² AWG 24AWG 16 solid Screw terminals, clamping capacity: 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 EN/IEC 60664-1	
Product weight	0.38 kg	

Environment

Immunity to microbreaks	<= 10 ms repeated 20 times	
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 61000-4-6 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

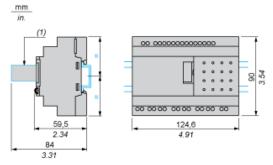
Disturbance radiated/conducted	Class B conforming to EN 55022-11 group 1	
Pollution degree	2 conforming to EN/IEC 61131-2	
Ambient air temperature for operation	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2	
Ambient air temperature for storage	-4070 °C	
Operating altitude	2000 m	
Altitude transport	<= 3048 m	
Relative humidity	95 % without condensation or dripping water	

Contractual warranty

Warranty period	18 months	

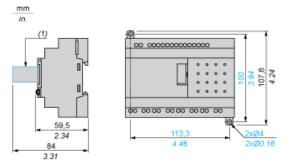
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



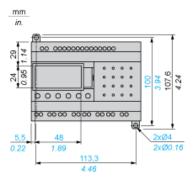
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



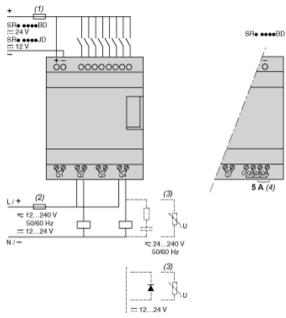
(1) With SR2USB01 or SR2BTC01

Position of Display



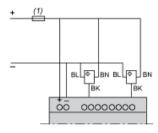
Compact and Modular Smart Relays

Connection of Smart Relays on DC Supply



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

Discrete Input Used for 3-Wire Sensors



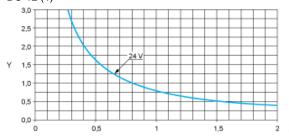
1 A quick-blow fuse or circuit-breaker. (1)

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)

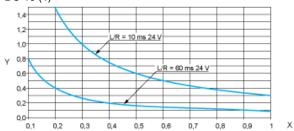


X: Current (A)

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: Y: Current (A)

Millions of operating cycles

(1) 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 lo