Product data sheet Characteristics

SR2B202BD

compact smart relay Zelio Logic - 20 I O - 24 V DC - clock - display

Product availability: Non-Stock - Not normally stocked in distribution facility

Price* : 392.00 USD



Main

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

Complementary

Complementary		Ö
Local display	With	O O
Number or control scheme lines	0500 with FBD programming 0240 with ladder programming	suitability or reliability of these produc
Cycle time	690 ms	e iii.
Backup time	10 yearsat 77 °F (25 °C)	or re-
Clock drift	6 s/monthat 77 °F (25 °C) 12 min/yearat 32131 °F (055 °C)	urtability
Checks	Program memory on each power up	& & & &
[Us] rated supply voltage	24 V DC	
Supply voltage limits	19.230 V	or det
Supply current	100 mA (without extension)	 peg
Power dissipation in W	3 W without extension	
Reverse polarity protection	With	not to be used for determining
Discrete input number	12 conforming to EN/IEC 61131-2 type 1	
Discrete input type	Resistive	substitute for and is
Discrete input voltage	24 V DC	iitute
Discrete input current	4 mA	isqns
Counting frequency	1 kHzfor discrete input	o o
Voltage state 1 guaranteed	>= 15 Vfor I1IA and IHIR discrete input circuit >= 15 Vfor IBIG used as discrete input circuit	intended
Voltage state 0 guaranteed	<= 5 Vfor I1IA and IHIR discrete input circuit <= 5 Vfor IBIG used as discrete input circuit	inot inot
Current state 1 guaranteed	>= 1.2 mA for IBIG used as discrete input circuit >= 2.2 mA for I1IA and IHIR discrete input circuit	um entatic
Current state 0 guaranteed	<= 0.5 mA for IBIG used as discrete input circuit <= 0.75 mA for I1IA and IHIR discrete input circuit	Disclaimer: This documentation is not intended
Input compatibility	3-wire proximity sensors PNP (discrete input)	
Analogue input number	6	

Analogue input type	Common mode
Analogue input range	010 V 024 V
Maximum permissible voltage	30 V (analogue input circuit)
Analogue input resolution	8 bits
LSB value	39 mV (analogue input circuit)
Conversion time	Smart relay cycle time analogue input circuit
Conversion error	+/- 5 %at 77 °F (25 °C)for analogue input circuit +/- 6.2 %at 131 °F (55 °C)for analogue input circuit
Repeat accuracy	+/- 2 %at 131 °F (55 °C)for analogue input circuit
Operating distance	10 m between stations, with screened cable (sensor not isolated) analogue input circuit
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	8 transistor output(s)
Output voltage	24 V (transistor output)
Output voltage limits	19.230 V DC (transistor output)
Load current	0.50.625 A (transistor output)
[Ures] residual voltage	<= 2 V at state 1 (transistor output)
Overload protection	With, transistor output
Short-circuit protection	With transistor output
Overvoltage protection	With, transistor output
Clock	With
Response time	<= 1 ms (from state 0 to state 1) transistor output <= 1 ms (from state 1 to state 0) transistor 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	4.42 lbf.in (0.5 N.m)
Overvoltage category	III conforming to EN/IEC 60664-1
Product weight	0.62 lb(US) (0.28 kg)

Environment

Immunity to microbreaks	<= 1 ms
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 61000-4-5 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	-4104 °F (-2040 °C) in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2

-4...131 $^{\circ}\text{F}$ (-20...55 $^{\circ}\text{C}) conforming to IEC 60068-2-1 and IEC 60068-2-2$

Ambient air temperature for storage	-40158 °F (-4070 °C)
Operating altitude	6561.68 ft (2000 m)
Altitude transport	<= 10000 ft (3048 m)
Relative humidity	95 % without condensation or dripping water

Ordering and shipping details

22378 - SR2,3 ZELIO 2 RELAYS
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Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:
Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
More information	For more information go to www.p65warnings.ca.gov

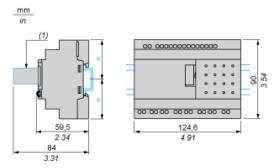
Contractual warranty

Warranty period 18 months
Warranty period 18 months

SR2B202BD

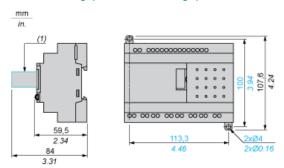
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



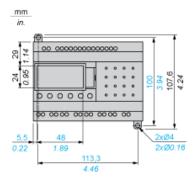
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



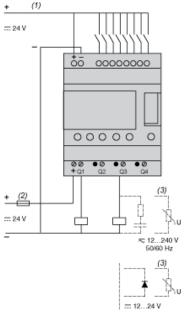
(1) With SR2USB01 or SR2BTC01

Position of Display



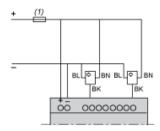
Compact and Modular Smart Relays

Connection of Smart Relays on DC Supply



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

Discrete Input Used for 3-Wire Sensors



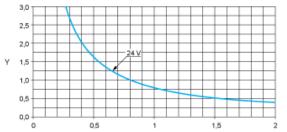
(1) 1 A quick-blow fuse or circuit-breaker.

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)

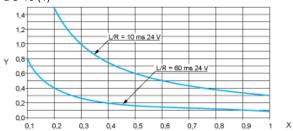


X: Current (A)

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