Product data sheet Characteristics

SR2A201BD

compact smart relay Zelio Logic - 20 I O - 24 V DC - no clock - display

Price*: 358.00 USD



Main	
Commercial Status	Commercialised
Range of product	Zelio Logic
Product or component type	Compact smart relay

Complementary

Local display	With
Number or control scheme lines	120 with ladder programming <= 200 with FBD programming
Cycle time	690 ms
Backup time	10 years at 77 °F (25 °C)
Clock drift	6 s/month at 77 °F (25 °C) 12 min/year at 32131 °F (055 °C)
Checks	Program memory on each power up
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.230 V
Supply current	100 mA (without extension)
Power dissipation in W	6 W without extension
Reverse polarity protection	With
Discrete input number	12 conforming to EN/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 state1 guaranteed	>= 15 V for IBIG used as discrete input circuit >= 15 V for I1IA and IHIR discrete input circuit
Voltage state 0 guaranteed	<= 5 V for IBIG used as discrete input circuit <= 5 V for I1IA and IHIR discrete input circuit
Current state 1 guaranteed	>= 2.2 mA for I1IA and IHIR discrete input circuit >= 1.2 mA for IBIG used as discrete input circuit
Current state 0 guaranteed	< 0.5 mA for IBIG used as discrete input circuit
Input compatibility	3-wire proximity sensors PNP (discrete input)
Analogue input number	2
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		
Conversion time	Smart relay cycle time for analogue input circuit	
Conversion error	+/- 6.2 % at 131 °F (55 °C) for analogue input circuit +/- 5 % at 77 °F (25 °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) for analogue input circuit	
Input impedance	7.4 kOhm (I1IA and IHIR discrete input circuit) 12 kOhm (IBIG used as discrete input circuit) 12 kOhm (IBIG used as analogue input circuit)	
Number of outputs	8 relay output(s)	
Output voltage limits	530 V DC (relay output) 24250 V AC (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 DC-13 at 24 V, 0.6 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 AC-15 at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-12 at 230 V, 1.5 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	10 Hz (no load) for relay output 0.1 Hz (at le) 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	Without	
Response time	5 ms (from state 1 to state 0) for relay output 10 ms (from state 0 to state 1) for relay output	
Connections - terminals	Screw terminals, clamping capacity: 2 x 0.252 x 0.75 mm² AWG 2418 flexible with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm² AWG 2416 solid Screw terminals, clamping capacity: 1 x 0.251 x 2.5 mm² AWG 2414 flexible with cable end Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 2514 solid Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 2514 semi-solid	
Tightening torque	4.42 lbf.in (0.5 N.m)	
Overvoltage category	III conforming to EN/IEC 60664-1	

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	IP40 (front panel) conforming to IEC 60529	
	IP20 (terminal block) conforming to IEC 60529	
Environmental characteristic	Low voltage directive conforming to EN/IEC 61131-2	
	EMC directive conforming to EN/IEC 61131-2 zone B	
	EMC directive conforming to EN/IEC 61000-6-4	
	EMC directive conforming to EN/IEC 61000-6-3	
	EMC directive conforming to EN/IEC 61000-6-2	
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	-4131 °F (-2055 °C) conforming to IEC 60068-2-1 and IEC 60068-2-2 -4104 °F (-2040 °C) in non-ventilated enclosure 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

0 11 0	
Category	22378 - SR2,3 ZELIO 2 RELAYS
Discount Schedule	
GTIN	00785901422556
Nbr. of units in pkg.	1
Package weight(Lbs)	0.78
Returnability	Υ
Country of origin	FR

