Product data sheet Characteristics

SR2PACK2BD

compact smart relay Zelio Logic - "discovery" pack - 20 I O - 24 V DC



Main

Man		
Range of product	Zelio Logic	
Product or component type	Compact discovery packs	-
Discrete input number	12 conforming to EN/IEC 61131-2 type 1	
Number of outputs	8 relay output(s)	

Complementary

Kit composition	Cable PC SR2USB01 for connection to PC Zelio Soft 2 programming software CD-ROM SR2B201BD		
Input/Output number	20		
Local display	With		
Number or control scheme lines	0200 with FBD programming 120 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		
Checks	Program memory on each power up		
[Us] rated supply voltage	24 V		
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 type	Resistive		
Discrete input voltage	24 V DC		
Discrete input current	4 mA		
Counting frequency	1 kHz for discrete input		
Voltage state 1 guaranteed			

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 for IBIG used as discrete input circuit >= 2.2 mA for I1IA and IHIR 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	024 V 010 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 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 (IBIG used as analogue input circuit) 12 kOhm (IBIG used as discrete input circuit) 7.4 kOhm (I1IA and IHIR discrete input circuit)		
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	Without		
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	0.7 kg		

Environment

Immunity to microbreaks	<= 1 ms
Product certifications	UL CSA GL GOST C-Tick
Standards	EN/IEC 60068-2-27 Ea EN/IEC 61000-4-3 EN/IEC 61000-4-11 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-5

	EN/IEC 61000-4-12 EN/IEC 60068-2-6 Fc		
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

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Warranty period		18 months		