Product data sheet Characteristics

SR2B121JD





Main

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

Complementary

Complementary		
Local display	With	
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	12 V DC	
Supply voltage limits	10.414.4 V	
Maximum supply current	120 MA (without extension)	
Power dissipation in W	1.5 W without extension	
Reverse polarity protection	With	
Discrete input number	8 conforming to EN/IEC 61131-2 type 1	
Discrete input type	Resistive	
Discrete input voltage	12 V DC	
Discrete input current	4 MA	
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	
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 (I1IA and IHIR discrete input circuit) >= 0.5 mA (IBIG used as discrete input circuit)	
Current state 0 guaranteed	<= 0.2 mA (IBIG used as discrete input circuit) <= 0.9 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	010 V 012 V	
Maximum permissible voltage	14.4 V for analogue input circuit	
Analogue input resolution	8 bits at maximum voltage	
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 in put circuit	
Input impedance	14 kOhm for IBIG used as analogue input circuit 14 kOhm for IBIG used as discrete input circuit 2.7 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 EN/IEC 60947-5-1 AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming- to EN/IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming- to EN/IEC 60947-5-1 DC-13: 500000 cycles 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 for relay output	
[Uimp] rated impulse withstand voltage	EN/IEC 60947-1 and EN/IEC 60664-1 4 kV	
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 EN/IEC 60664-1	
Net weight	0.25 Kg	

Environment

Immunity to microbreaks	1 Ms repeated 20 times	
Product certifications	C-Tick UL CSA GOST GL	
Standards	EN/IEC 61000-4-11 EN/IEC 60068-2-6 Fc EN/IEC 61000-4-12 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-3 EN/IEC 61000-4-4 level 3 EN/IEC 60068-2-27 Ea 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	
-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 Weight	239 G
Package 1 Height	6.8 Cm
Package 1 width	9 Cm
Package 1 Length	10 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	7.775 Kg
Package 2 Height	30 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm

Offer Sustainability

Sustainable offer status	Green Premium product	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₽¥Yes	
China RoHS Regulation	☑ China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☑ End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	

Contractual warranty

Warranty	18 months	
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Product Life Status : Commercialised

