

Product data sheet Characteristics

SR2PACKBD

Zelio Logic, Compact discovery packs, smart relay discovery pack, 12 I/O, 24 V DC





| Main | |
|---------------------------|------------------------------------|
| Range of product | Zelio Logic |
| Product or component type | Compact discovery packs |
| Discrete input number | 8 conforming to IEC 61131-2 Type 1 |
| Number of outputs | 4 relay |

Complementary

| Kit composition | SR2B121BD Cable PC SR2USB01 for connection to PC |
|--------------------------------|---|
| Input/output number | 12 |
| Local display | With |
| Number or control scheme lines | 120 with ladder programming 0200 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 | 24 V |
| Supply voltage limits | 19.230 V |
| Maximum supply current | 100 mA (without extension) |
| Power dissipation in W | 3 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 | >= 15 V for I1IA and IHIR discrete input circuit >= 15 V for IBIG used as discrete input circuit |
| 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 (IBIG used as discrete input circuit) >= 2.2 mA (I1IA and IHIR discrete input circuit) |
| Current state 0 guaranteed | <= 0.5 mA (IBIG used as discrete input circuit) <= 0.75 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 024 V |

| Temperature probe type | NTC 10k at 25 °C NTC 1000k at 25 °C KTY81 210/220/221/222/250 Pt 500 |
|--|--|
| Maximum permissible voltage | 30 V for analogue input circuit |
| Analogue input resolution | 8 bits |
| 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 input circuit |
| Input impedance | 12 kOhm for IBIG used as analogue input circuit 12 kOhm for IBIG used as discrete input circuit 7.4 kOhm for 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 4 outputs for relay output |
| Electrical durability | AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1 AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to IEC 60947-5-1 DC-13: 500000 cycles at 24 V, 0.6 A for relay output conforming to 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 | 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, 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 IEC 60664-1 |
| Net weight | 0.7 kg |
| | |

Environment

2

| CSA[RETURN]C-Tick[RETURN]UL[RETURN]GOST[RETURN]GL EC 61000-4-4 level 3 EC 61000-4-12 EC 61000-4-5 EC 60068-2-6 Fc EC 61000-4-2 level 3 EC 61000-4-6 level 3 |
|---|
| EC 61000-4-12 EC 61000-4-5 EC 60068-2-6 Fc EC 61000-4-2 level 3 |
| EC 61000-4-5 EC 60068-2-6 Fc EC 61000-4-2 level 3 |
| EC 60068-2-6 Fc EC 61000-4-2 level 3 |
| EC 61000-4-2 level 3 |
| |
| FC 61000-4-6 level 3 |
| 20 0 1000 1 0 10101 0 |
| EC 61000-4-3 |
| EC 61000-4-11 |
| EC 60068-2-27 Ea |
| P20 (terminal block) conforming to IEC 60529 |
| P40 (front panel) conforming to IEC 60529 |
| EMC directive conforming to IEC 61000-6-2 |
| EMC directive conforming to IEC 61000-6-3 |
| EMC directive conforming to IEC 61000-6-4 |
| EMC directive conforming to IEC 61131-2 zone B |
| Low voltage directive conforming to IEC 61131-2 |
| Class B conforming to EN 55022-11 group 1 |
| |

| Pollution degree | 2 conforming to 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 |
| 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 |
| B 1 411 114 | 6.500 cm |
| Package 1 Height | |
| | 15.500 cm |
| Package 1 Width | 15.500 cm 23.500 cm |
| Package 1 Width Package 1 Length | |
| Package 1 Width Package 1 Length Package 1 Weight | 23.500 cm |
| Package 1 Height Package 1 Width Package 1 Length Package 1 Weight Unit Type of Package 2 Number of Units in Package 2 | 23.500 cm 397.000 g |

Offer Sustainability

Package 2 Width

Package 2 Length

Package 2 Weight

| Sustainable offer status | Green Premium product |
|----------------------------|---|
| REACh Regulation | ☑ REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | ₫Yes |
| 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 |

30.000 cm

40.000 cm

4.445 kg

Contractual warranty

| Contractadi Warranty | | |
|----------------------|-----------|--|
| Warranty | 18 months | |