



Main

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| Range of product | Zelio Logic |
| Product or component type | Modular discovery packs |
| Discrete input number | 6 conforming to EN/IEC 61131-2 type 1 |
| Number of outputs | 4 relay output(s) |

Complementary

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| Kit composition | Cable PC SR2USB01 for connection to PC SR3B101BD Zelio Soft 2 programming software CD-ROM |
| Input/Output number | 10 |
| Local display | With |
| Number of control scheme lines | 120 with ladder programming <= 200 with FBD programming |
| Cycle time | 6...90 ms |
| Backup time | 10 years at 25 °C |
| Clock drift | 6 s/month at 25 °C 12 min/year at 0...55 °C |
| Checks | Program memory on each power up |
| [Us] rated supply voltage | 24 V |
| Supply voltage limits | 19.2...30 V |
| Supply current | 100 mA (without extension) 100 mA (with extensions) |
| Power dissipation in W | 8 W with extensions 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 IB...IG used as discrete input circuit >= 15 V for I1...IA and IH...IR discrete input circuit |
| Voltage state 0 guaranteed | <= 5 V <= 5 V for IB...IG used as discrete input circuit <= 5 V for I1...IA and IH...IR discrete input circuit |
| Current state 1 guaranteed | >= 2.2 mA for I1...IA and IH...IR discrete input circuit >= 1.2 mA for IB...IG used as discrete input circuit |
| Current state 0 guaranteed | < 0.75 mA for I1...IA and IH...IR discrete input circuit < 0.5 mA for IB...IG used as discrete input circuit |
| Input compatibility | 3-wire proximity sensors PNP (discrete input) |
| Analogue input number | 4 |
| Analogue input type | Common mode |
| Analogue input range | 0...10 V 0...24 V |
| Maximum permissible voltage | 30 V (analogue input circuit) |

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| Analogue input resolution | 8 bits |
| LSB value | 39 mV (analogue input circuit) |
| Conversion time | Smart relay cycle time for analogue input circuit |
| Conversion error | +/- 6.2 % at 55 °C for analogue input circuit +/- 5 % at 25 °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 | 7.4 kOhm (I1...IA and IH...IR discrete input circuit) 12 kOhm (IB...IG used as discrete input circuit) 12 kOhm (IB...IG used as analogue input circuit) |
| Output voltage limits | 5...30 V DC (relay output) 24...250 V AC (relay output) |
| Contacts type and composition | NO for relay output |
| Output thermal current | 8 A for all 4 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 Ie) 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 | With |
| 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 0.25...2 x 0.75 mm ² AWG 24...AWG 18 flexible with cable end Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16 solid Screw terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm ² AWG 24...AWG 14 flexible with cable end Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm ² AWG 25...AWG 14 solid Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm ² AWG 25...AWG 14 semi-solid |
| Tightening torque | 0.5 N.m |
| Overvoltage category | III conforming to EN/IEC 60664-1 |
| Product weight | 0.7 kg |

Environment

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| 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 |

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| 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 | -20...55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2 -20...40 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 |
| Ambient air temperature for storage | -40...70 °C |
| Operating altitude | 2000 m |
| Altitude transport | <= 3048 m |
| Relative humidity | 95 % without condensation or dripping water |