



Main

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| Range of product | Zelio Logic |
| Product or component type | Modular smart relay |
| [Us] rated supply voltage | 24 V DC |
| Discrete input number | 16 EN/IEC 61131-2 type 1 |
| Analogue input number | 6 |
| Number of outputs | 10 relay |

Complementary

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| Local display | With |
| Supply current | 190 mA without extension 300 mA with extensions |
| Discrete input type | Resistive |
| Discrete input current | 4 mA |
| Number of control scheme lines | 120 ladder ≤ 200 FBD |
| Cycle time | 6...90 ms |
| Backup time | 10 years 25 °C |
| Clock drift | 6 s/month 25 °C 12 min/year 0...55 °C |
| Checks | Program memory on each power up |
| Supply voltage limits | 19.2...30 V |
| Power dissipation in W | 6 W without extension 10 W with extensions |
| Reverse polarity protection | With |
| Discrete input voltage | 24 V DC |
| Counting frequency | 1 kHz discrete input |
| Voltage state 1 guaranteed | ≥ 15 V I1...IA and IH...IR discrete input circuit ≥ 15 V IB...IG used as discrete input circuit |
| Voltage state 0 guaranteed | ≤ 5 V IB...IG used as discrete input circuit ≤ 5 V I1...IA and IH...IR discrete input circuit |
| Current state 1 guaranteed | ≥ 1.2 mA IB...IG used as discrete input circuit ≥ 2.2 mA I1...IA and IH...IR discrete input circuit |
| Current state 0 guaranteed | < 0.5 mA IB...IG used as discrete input circuit < 0.75 mA I1...IA and IH...IR discrete input circuit |
| Input compatibility | 3-wire proximity sensors PNP discrete input |
| Analogue input type | Common mode |
| Analogue input range | 0...10 V 0...24 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 analogue input circuit |
| Conversion error | +/- 5 % 25 °C analogue input circuit +/- 6.2 % 55 °C analogue input circuit |
| Repeat accuracy | +/- 2 % 55 °C analogue input circuit |

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| Operating distance | 10 m between stations, with screened cable (sensor not isolated) 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 relay output |
| Output thermal current | 5 A for 2 outputs relay output 8 A for 8 outputs relay output |
| Electrical durability | 500000 cycles DC-12 24 V 1.5 A relay output EN/IEC 60947-5-1 500000 cycles DC-13 24 V 0.6 A relay output EN/IEC 60947-5-1 500000 cycles AC-12 230 V 1.5 A relay output EN/IEC 60947-5-1 500000 cycles AC-15 230 V 0.9 A relay output EN/IEC 60947-5-1 |
| Switching capacity in mA | ≥ 10 mA 12 V relay output |
| Operating rate in Hz | 0.1 Hz at Ie relay output 10 Hz no load relay output |
| Mechanical durability | 10000000 cycles relay output |
| [Uimp] rated impulse withstand voltage | 4 kV EN/IEC 60947-1 and EN/IEC 60664-1 |
| Clock | With |
| Response time | 5 ms from state 1 to state 0 relay output 10 ms from state 0 to state 1 relay output |
| Connections - terminals | Screw terminals 1 x 0.25...1 x 2.5 mm ² 24...14 flexible with cable end Screw terminals 2 x 0.25...2 x 0.75 mm ² 24...18 flexible with cable end Screw terminals 1 x 0.2...1 x 2.5 mm ² 25...14 semi-solid Screw terminals 1 x 0.2...1 x 2.5 mm ² 25...14 solid Screw terminals 2 x 0.2...2 x 1.5 mm ² 24...16 solid |
| Tightening torque | 0.5 N.m |
| Overvoltage category | III EN/IEC 60664-1 |
| Product weight | 0.4 kg |

Environment

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|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks | ≤ 1 ms |
| Product certifications | C-Tick CSA 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 | IP20 terminal block IEC 60529 IP40 front panel IEC 60529 |
| Environmental characteristic | EMC directive EN/IEC 61131-2 zone B EMC directive EN/IEC 61000-6-2 EMC directive EN/IEC 61000-6-3 EMC directive EN/IEC 61000-6-4 Low voltage directive EN/IEC 61131-2 |
| Disturbance radiated/conducted | Class B EN 55022-11 group 1 |
| Pollution degree | 2 EN/IEC 61131-2 |
| Ambient air temperature for operation | -20...40 °C in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -20...55 °C 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 |
| RoHS EUR conformity date | 0622 |
| RoHS EUR status | Compliant |