



Main

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| Range of product | Zelio Logic |
| Product or component type | Modular smart relay |

Complementary

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|--------------------------------|---|
| Local display | With |
| Number or control scheme lines | 0...500 with FBD programming 0...240 with ladder programming |
| Cycle time | 6...90 Ms |
| Backup time | 10 years at 25 °C |
| Clock drift | 12 min/year at 0...55 °C 6 s/month at 25 °C |
| Checks | Program memory on each power up |
| [Us] rated supply voltage | 24 V |
| Supply voltage limits | 19.2...30 V |
| Maximum supply current | 180 MA (with extensions) 70 MA (without extension) |
| Power dissipation in W | 10 W with extensions 5 W without extension |
| Reverse polarity protection | With |
| Discrete input number | 16 conforming to EN/IEC 61131-2 type 1 |
| 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 I1...IA and IH...IR discrete input circuit ≥ 15 V for IB...IG used as discrete input circuit |
| Voltage state 0 guaranteed | ≤ 5 V for I1...IA and IH...IR discrete input circuit ≤ 5 V for IB...IG used as 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 for discrete input |
| Analogue input number | 6 |
| Analogue input type | Common mode |
| Analogue input range | 0...24 V 0...10 V |
| Maximum permissible voltage | 30 V for analogue input circuit |
| Analogue input resolution | 8 bits |
| LSB value | 39 mV for analogue input circuit |

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| 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 IB...IG used as analogue input circuit 12 kOhm for IB...IG used as discrete input circuit 7.4 kOhm for I1...IA and IH...IR discrete input circuit |
| Number of outputs | 10 transistor |
| Output voltage | 24 V transistor output |
| Output voltage limits | 19.2...30 V DC (transistor output) |
| [Uimp] rated impulse withstand voltage | 4 KV EN/IEC 60947-1 and EN/IEC 60664-1 |
| Load current | 0.5...0.625 A transistor output |
| [Ures] residual voltage | 2 V at state 1 transistor output |
| Overload protection | With overload protection for transistor output |
| Short-circuit protection | With transistor output |
| Overvoltage protection | With overvoltage protection for transistor output |
| Clock | With |
| Response time | <= 1 ms (from state 0 to state 1) for transistor output <= 1 ms (from state 1 to state 0) for transistor output |
| Connections - terminals | Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 25...AWG 14) semi-solid Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 25...AWG 14) solid Screw terminals, 1 x 0.25...1 x 2.5 mm ² (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) solid Screw terminals, 2 x 0.25...2 x 0.75 mm ² (AWG 24...AWG 18) flexible with cable end |
| Tightening torque | 0.5 N.M |
| Overvoltage category | III conforming to EN/IEC 60664-1 |
| Net weight | 0.3 Kg |

Environment

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|---------------------------------------|---|
| Immunity to microbreaks | 1 Ms |
| Product certifications | C-Tick GOST UL CSA GL |
| Standards | EN/IEC 60068-2-27 Ea EN/IEC 61000-4-5 EN/IEC 61000-4-11 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-3 EN/IEC 61000-4-2 level 3 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 | -20...40 °C in non-ventilated enclosure conforming- to IEC 60068-2-1 and IEC 60068-2-2 -20...55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2 |
| Ambient air temperature for storage | -40...70 °C |
| Operating altitude | 2000 m |
| Maximum altitude transport | 3048 M |
| Relative humidity | 95 % without condensation or dripping water |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 298 G |
| Package 1 Height | 6.8 Cm |
| Package 1 width | 10 Cm |
| Package 1 Length | 13.5 Cm |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 20 |
| Package 2 Weight | 6.586 Kg |
| Package 2 Height | 30 Cm |
| Package 2 width | 30 Cm |
| Package 2 Length | 40 Cm |

Offer Sustainability

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|----------------------------|---|
| 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

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| Warranty | 18 months |
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Product Life Status : **Commercialised**