



Main

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

Complementary

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| Local display | With |
| Number or control scheme lines | 0...240 with ladder programming 0...500 with FBD 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 AC |
| Supply voltage limits | 20.4...28.8 V |
| Supply frequency | 50/60 Hz |
| Maximum supply current | 145 mA (without extension) |
| Power consumption in VA | 4 VA without extension |
| Isolation voltage | 1780 V |
| Protection type | Against inversion of terminals (control instructions not executed) |
| Discrete input number | 8 |
| Discrete input voltage | 24 V AC |
| Discrete input current | 4.4 mA |
| Discrete input frequency | 57...63 Hz 47...53 Hz |
| Voltage state 1 guaranteed | ≥ 14 V for discrete input |
| Voltage state 0 guaranteed | ≤ 5 V for discrete input |
| Current state 1 guaranteed | ≥ 2 mA (discrete input) |
| Current state 0 guaranteed | ≤ 0.5 mA (discrete input) |
| Input impedance | 4.6 kOhm for discrete input |
| Number of outputs | 4 relay |
| Output voltage limits | 5...30 V DC (relay output) 24...250 V AC |
| Contacts type and composition | NO for relay output |
| Output thermal current | 8 A for all 4 outputs for relay output |

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| 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 Ie) for relay output 10 Hz (no load) for relay output |
| Mechanical durability | 10000000 Cycles for relay output |
| [Uimp] rated impulse withstand voltage | 4 KV EN/IEC 60947-1 and EN/IEC 60664-1 |
| Clock | With |
| Response time | 50 ms with ladder programming (from state 0 to state 1) for discrete input 50 ms with ladder programming (from state 1 to state 0) for discrete input 50...255 ms with FBD programming (from state 0 to state 1) for discrete input 50...255 ms with FBD programming (from state 1 to state 0) for discrete input 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 0.2...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 | 0.25 Kg |

Environment

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|---------------------------------------|---|
| Immunity to microbreaks | 10 Ms repeated 20 times |
| Product certifications | C-Tick CSA GL UL GOST |
| Standards | EN/IEC 61000-4-3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-11 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-5 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 60068-2-6 Fc EN/IEC 61000-4-12 |
| 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 | 243 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 | 7.785 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**