



Main

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|---------------------------|-------------------------------|
| Range of Product | Zelio Logic |
| Product or Component Type | Discrete I/O extension module |

Complementary

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|--|--|
| Number of control scheme lines | 120 ladder |
| Cycle time | 6...90 ms |
| Backup time | 10 years 77 °F (25 °C) |
| Clock drift | 12 min/year 32...131 °F (0...55 °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 |
| Reverse polarity protection | With |
| Discrete input number | 4 |
| Discrete input voltage | 24 V AC |
| Discrete input current | 4.4 mA |
| Discrete input frequency | 47...53 Hz 57...63 Hz |
| Voltage state 1 guaranteed | >= 14 V discrete input |
| Voltage state 0 guaranteed | <= 5 V discrete input |
| Current state 1 guaranteed | >= 2 mA discrete input) |
| Current state 0 guaranteed | <= 0.5 mA discrete input) |
| Input impedance | 4.6 kOhm discrete input |
| Number of Outputs | 2 relay |
| Output voltage limits | 5...30 V DC relay output) 24...250 V AC |
| Contacts type and composition | NO relay output |
| Output thermal current | 8 A for all 2 outputs relay output |
| Electrical durability | AC-15 500000 cycles 230 V, 0.9 A relay output EN/IEC 60947-5-1 AC-12 500000 cycles 230 V, 1.5 A relay output EN/IEC 60947-5-1 DC-13 500000 cycles 24 V, 0.6 A relay output EN/IEC 60947-5-1 DC-12 500000 cycles 24 V, 1.5 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 |

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|-------------------------|---|
| Response time | 50 ms ladder from state 0 to state 1)discrete input 50 ms ladder from state 1 to state 0)discrete input 50...255 ms FBD from state 0 to state 1)discrete input 50...255 ms FBD from state 1 to state 0)discrete input 10 ms from state 0 to state 1)relay output 5 ms from state 1 to state 0)relay output |
| Connections - terminals | Screw terminals, 1 x 0.25...1 x 2.5 mm ² AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.25...2 x 0.75 mm ² AWG 24...AWG 18) flexible with cable end 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, 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16) solid |
| Tightening torque | 4.43 lbf.in (0.5 N.m) |
| Overvoltage category | III EN/IEC 60664-1 |
| Net Weight | 0.28 lb(US) (0.125 kg) |

Environment

| | |
|---------------------------------------|---|
| Product Certifications | CSA GL GOST UL C-tick |
| Standards | EN/IEC 61000-4-12 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-3 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-11 EN/IEC 61000-4-5 EN/IEC 61000-4-2 level 3 EN/IEC 60068-2-6 Fc |
| IP degree of protection | IP20 IEC 60529 terminal block) IP40 IEC 60529 front panel) |
| Environmental characteristic | EMC directive EN/IEC 61000-6-2 EMC directive EN/IEC 61000-6-3 EMC directive EN/IEC 61000-6-4 EMC directive EN/IEC 61131-2 zone B 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 | -4...104 °F (-20...40 °C) in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -4...131 °F (-20...55 °C) IEC 60068-2-1 and IEC 60068-2-2 |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Operating altitude | 6561.68 ft (2000 m) |
| Maximum altitude transport | 10000.00 ft (3048 m) |
| Relative Humidity | 95 % without condensation or dripping water |

Ordering and shipping details

| | |
|-----------------------|------------------------------|
| Category | 22378 - SR2,3 ZELIO 2 RELAYS |
| Discount Schedule | I |
| GTIN | 3389110550177 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4.16 oz (118 g) |
| Returnability | No |
| Country of origin | FR |

Packing Units

| | |
|------------------------|------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.36 in (6 cm) |
| Package 1 width | 2.56 in (6.5 cm) |
| Package 1 Length | 4.33 in (11 cm) |
| Unit Type of Package 2 | S03 |

| | |
|------------------------------|-------------------------|
| Number of Units in Package 2 | 48 |
| Package 2 Weight | 13.84 lb(US) (6.276 kg) |
| Package 2 Height | 11.81 in (30 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

Offer Sustainability

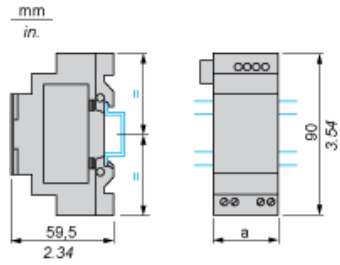
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| 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

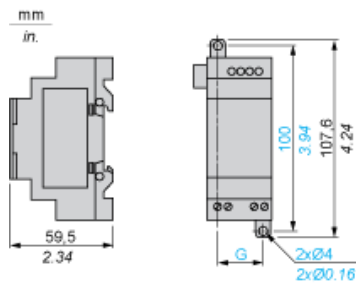
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|----------|-----------|
| Warranty | 18 months |
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I/O Extension Modules

Mounting on 35 mm/1.38 in. DIN Rail



Screw Fixing (Retractable Lugs)



| SR3 | a (mm/in.) | G (mm/in.) |
|---------|------------|------------|
| XT61•• | 35 / 1.38 | 25 / 0.98 |
| XT101•• | 72 / 2.83 | 60 / 2.36 |
| XT141•• | 72 / 2.83 | 60 / 2.36 |

Connection of Smart Relays on AC Supply

SR••••1B, SR••••1FU



- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) Fuse or circuit-breaker.
- (3) Inductive load.
- (4) Q9 and QA: 5 A (max. current in terminal C: 10 A).

With Discrete I/O Extension Module

SR3B•••B + SR3XT•••B, SR3B•••FU + SR3XT•••FU



- (1) 1 A quick-blow fuse or circuit-breaker.

NOTE: QF and QG: 5 A for SR3XT141••

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

AC-12 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, $\cos \geq 0.9$.

AC-14 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads ≤ 72 VA, make: $\cos = 0.3$, break: $\cos = 0.3$.

AC-15 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-15: switching electromagnetic loads ≥ 72 VA, make: $\cos = 0.7$, break: $\cos = 0.4$.