compact smart relay, Zelio Logic SR2 SR3, 20 IO, 24V DC, no clock, display

Green Premium


| Main |  |
| :--- | :--- |
| Range of product | Zelio Logic |
| Product or component <br> type | Compact smart relay |



| 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 | 8 relay |
| Output voltage limits | 24... 250 V AC (relay output) <br> 5... 30 V DC (relay output) |
| Contacts type and composition | NO for relay output |
| Output thermal current | 8 A for all 8 outputs for relay output |
| Electrical durability | AC-12: 500000 cycles at $230 \mathrm{~V}, 1.5 \mathrm{~A}$ for relay output conforming to EN/IEC 60947-5-1 <br> AC-15: 500000 cycles at $230 \mathrm{~V}, 0.9 \mathrm{~A}$ for relay output conforming to EN/IEC 60947-5-1 <br> DC-12: 500000 cycles at 24 V , 1.5 A for relay output conforming to EN/IEC 60947-5-1 <br> DC-13: 500000 cycles at $24 \mathrm{~V}, 0.6 \mathrm{~A}$ 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 le) for relay output 10 Hz (no load) for relay output |
| Mechanical durability | 10000000 cycles for relay output |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1 |
| Clock | Without |
| Response time | 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, $1 \times 0.2 \ldots 1 \times 2.5 \mathrm{~mm}^{2}$ (AWG 25...AWG 14) semi-solid <br> Screw terminals, $1 \times 0.2 . .1 \times 2.5 \mathrm{~mm}^{2}$ (AWG $25 \ldots$..AWG 14) solid <br> Screw terminals, $1 \times 0.25 \ldots 1 \times 2.5 \mathrm{~mm}^{2}$ (AWG $24 \ldots . . A W G 14$ ) flexible with cable end <br> Screw terminals, $2 \times 0.2 \ldots 2 \times 1.5 \mathrm{~mm}^{2}$ (AWG 24...AWG 16) solid Screw terminals, $2 \times 0.25 \ldots 2 \times 0.75 \mathrm{~mm}^{2}$ (AWG $24 \ldots$ AWG 18) flexible with cable end |
| Tightening torque | 0.5 N.m |
| Overvoltage category | III conforming to EN/IEC 60664-1 |
| Product weight | 0.38 kg |

Environment

| Immunity to microbreaks | 1 ms |
| :---: | :---: |
| Product certifications | GOST |
|  | CSA |
|  | GL |
|  | UL |
|  | C-Tick |
| Standards | EN/IEC 61000-4-5 |
|  | EN/IEC 61000-4-6 level 3 |
|  | EN/IEC 60068-2-6 Fc |
|  | EN/IEC 61000-4-12 |
|  | EN/IEC 61000-4-11 |
|  | EN/IEC 61000-4-3 |
|  | EN/IEC 61000-4-2 level 3 |
|  | EN/IEC 60068-2-27 Ea |
|  | EN/IEC 61000-4-4 level 3 |
| 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 | $-20 \ldots 40^{\circ} \mathrm{C}$ in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 |
|  | -20...55 ${ }^{\circ} \mathrm{C}$ conforming to IEC 60068-2-1 and IEC 60068-2-2 |
| Ambient air temperature for storage | $-40 . .70^{\circ} \mathrm{C}$ |
| Operating altitude | 2000 m |


| Maximum altitude transport | 3048 m |
| :--- | :--- |
| Relative humidity | $95 \%$ without condensation or dripping water |
|  |  |
| Packing Units | PCE |
| Unit Type of Package 1 | 1 |
| Number of Units in Package 1 | 6.8 cm |
| Package 1 Height | 10 cm |
| Package 1 Width | 13.5 cm |
| Package 1 Length | 356 g |
| Package 1 Weight | 503 |
| Unit Type of Package 2 | 20 |
| Number of Units in Package 2 | 30 cm |
| Package 2 Height | 30 cm |
| Package 2 Width | 40 cm |
| Package 2 Length | 7.596 kg |
| Package 2 Weight |  |

Offer Sustainability

| Sustainable offer status | Green Premium product |
| :---: | :---: |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro－active compliance（Product out of EU RoHS legal scope）俘EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | W China RoHS Declaration |
| RoHS exemption information | 团Yes |
| Environmental Disclosure | ¢Product Environmental Profile |
| Circularity Profile | 圂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 |
| 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 |

Contractual warranty
Warranty 18 months

Mounting on $35 \mathrm{~mm} / 1.38 \mathrm{in}$. DIN Rail

$$
\frac{\mathrm{mm}}{\mathrm{in}}
$$


(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)
$\frac{\mathrm{mm}}{\mathrm{in} .}$

(1) With SR2USB01 or SR2BTC01

Position of Display


Compact and Modular Smart Relays
Connection of Smart Relays on DC Supply

(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 ).

Discrete Input Used for 3-Wire Sensors

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

Electrical Durability of Relay Outputs
(in millions of operating cycles, conforming to IEC/EN 60947-5-1)
DC-12 (1)


X: Current (A)
Y: Millions of operating cycles
(1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, L/R $\leq 1 \mathrm{~ms}$.

DC-13 (1)


X: Current (A)
Y: Millions of operating cycles
(1) DC-13: switching electromagnets, $\mathrm{L} / \mathrm{R} \leq 2 \times$ (Ue $\times \mathrm{le}$ ) in ms , Ue: rated operational voltage, le: rated operational current (with a protection diode on the load, DC-12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles).

