## Main

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Zelio Logic</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Compact smart relay</td>
</tr>
</tbody>
</table>

## Complementary

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local display</td>
<td>With</td>
</tr>
</tbody>
</table>
| 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              | 6 s/month at 25 °C                           
                             | 12 min/year at 0...55 °C                    |
| Checks                   | Program memory on each power up              |
| [Us] rated supply voltage| 100...240 V AC                               |
| Supply voltage limits    | 85...264 V                                   |
| Supply frequency         | 50/60 Hz                                     |
| Supply current           | 30 mA at 240 V (without extension)           
                             | 80 mA at 100 V (without extension)          |
| Power consumption in VA  | 7 VA without extension                       |
| Isolation voltage        | 1780 V                                       |
| Protection type          | Against inversion of terminals (control instructions not executed) |
| Discrete input number    | 8                                            |
| Discrete input voltage   | 100...240 V AC                               |
| Discrete input current   | 0.6 mA                                       |
| Discrete input frequency | 47...53 Hz                                   
                             | 57...63 Hz                                    |
| Voltage state 1 guaranteed| >= 79 V for discrete input                    |
| Voltage state 0 guaranteed| <= 40 V for discrete input                   |
| Current state 1 guaranteed| >= 0.17 mA for discrete input                |
| Current state 0 guaranteed| <= 0.5 mA for discrete input                |
| Input impedance          | 350 kOhm (discrete input)                    |
| Number of outputs        | 4 relay output(s)                            |
| Output voltage limits    | 24...250 V AC                                
                             | 5...30 V DC (relay output)                   |
### Contacts type and composition
- NO for relay output

### Output thermal current
- 8 A for all 4 outputs (relay output)

### Electrical durability
- 500,000 cycles AC-12 at 230 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1
- 500,000 cycles AC-15 at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1
- 500,000 cycles DC-12 at 24 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1
- 500,000 cycles DC-13 at 24 V, 0.6 A for relay output conforming to EN/IEC 60947-5-1

### Switching capacity in mA
- \( \geq 10 \text{ mA at 12 V (relay output)} \)

### Operating rate in Hz
- 0.1 Hz (at le) for relay output
- 10 Hz (no load) for relay output

### Mechanical durability
- 10,000,000 cycles (relay output)

### [Uimp] rated impulse withstand voltage
- 4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1

### Clock
- With

### 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, clamping capacity: 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14 semi-solid
- Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14 solid
- Screw terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm² AWG 24...AWG 14 flexible with cable end
- Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16 solid
- Screw terminals, clamping capacity: 2 x 0.25...2 x 0.75 mm² AWG 24...AWG 18 flexible with cable end

### Tightening torque
- 0.5 N.m

### Overvoltage category
- III conforming to EN/IEC 60664-1

### Product weight
- 0.25 kg

### Environment

#### Immunity to microbreaks
- \( \leq 10 \text{ ms} \)

#### Product certifications
- CSA
- C-Tick
- 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) 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 60668-2-1 and IEC 60668-2-2
- -20...55 °C conforming to IEC 60668-2-1 and IEC 60668-2-2

#### Ambient air temperature for storage
- -40...70 °C

#### Operating altitude
- 2000 m

#### Altitude transport
- \( \leq 3048 \text{ m} \)

#### Relative humidity
- 95 % without condensation or dripping water

### Contractual warranty

#### Warranty period
- 18 months