



Price\* : 222.00 USD



## Main

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

## Complementary

|                                |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| Local display                  | Without                                                            |
| Number of control scheme lines | 0...240 ladder<br>0...500 FBD                                      |
| Cycle time                     | 6...90 ms                                                          |
| Backup time                    | 10 years 77 °F (25 °C)                                             |
| Clock drift                    | 12 min/year 32...131 °F (0...55 °C)<br>6 s/month 77 °F (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       | 47...53 Hz<br>57...63 Hz                                           |
| Voltage state 1 guaranteed     | >= 14 V discrete input                                             |
| Voltage state 0 guaranteed     | <= 5 V discrete input                                              |

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                      | 8 relay                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Output voltage limits                  | 5...30 V DC relay output)<br>24...250 V AC                                                                                                                                                                                                                                                                                                                                                                                                |
| Contacts type and composition          | NO relay output                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Output thermal current                 | 8 A for all 4 outputs relay output                                                                                                                                                                                                                                                                                                                                                                                                        |
| Electrical durability                  | AC-12 500000 cycles 230 V, 1.5 A relay output EN/IEC 60947-5-1<br>AC-15 500000 cycles 230 V, 0.9 A relay output EN/IEC 60947-5-1<br>DC-12 500000 cycles 24 V, 1.5 A relay output EN/IEC 60947-5-1<br>DC-13 500000 cycles 24 V, 0.6 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<br>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                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clock                                  | With                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Response time                          | 50 ms ladder from state 0 to state 1)discrete input<br>50 ms ladder from state 1 to state 0)discrete input<br>50...255 ms FBD from state 0 to state 1)discrete input<br>50...255 ms FBD from state 1 to state 0)discrete input<br>10 ms from state 0 to state 1)relay output<br>5 ms from state 1 to state 0)relay output                                                                                                                 |
| Connections - terminals                | Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> AWG 25...AWG 14) semi-solid<br>Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> AWG 25...AWG 14) solid<br>Screw terminals, 1 x 0.25...1 x 2.5 mm <sup>2</sup> AWG 24...AWG 14) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> AWG 24...AWG 16) solid<br>Screw terminals, 2 x 0.25...2 x 0.75 mm <sup>2</sup> AWG 24...AWG 18) flexible with cable end |
| Tightening torque                      | 4.43 lbf.in (0.5 N.m)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Overvoltage category                   | III EN/IEC 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Net Weight                             | 0.49 lb(US) (0.22 kg)                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                                                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | 10 ms repeated 20 times                                                                                                                                                                                           |
| Product certifications                | GL<br>UL<br>CSA<br>GOST<br>C-tick                                                                                                                                                                                 |
| Standards                             | EN/IEC 61000-4-6 level 3<br>EN/IEC 60068-2-27 Ea<br>EN/IEC 61000-4-11<br>EN/IEC 60068-2-6 Fc<br>EN/IEC 61000-4-4 level 3<br>EN/IEC 61000-4-5<br>EN/IEC 61000-4-3<br>EN/IEC 61000-4-2 level 3<br>EN/IEC 61000-4-12 |
| IP degree of protection               | IP20 IEC 60529 terminal block)<br>IP40 IEC 60529 front panel)                                                                                                                                                     |
| Environmental characteristic          | EMC directive EN/IEC 61000-6-2<br>EMC directive EN/IEC 61000-6-3<br>EMC directive EN/IEC 61000-6-4<br>EMC directive EN/IEC 61131-2 zone B<br>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<br>-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                  | 03389110549799               |
| Nbr. of units in pkg. | 1                            |
| Package weight(Lbs)   | 7.34 oz (208 g)              |
| Returnability         | Yes                          |
| Country of origin     | FR                           |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 2.68 in (6.8 cm)       |
| Package 1 width              | 3.54 in (9 cm)         |
| Package 1 Length             | 3.94 in (10 cm)        |
| Unit Type of Package 2       | S03                    |
| Number of Units in Package 2 | 30                     |
| Package 2 Weight             | 15.17 lb(US) (6.88 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

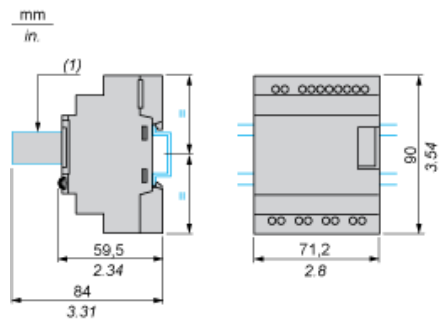
|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                                                           |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                                                                                                                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                                                                                                                                                                                     |
| 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

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

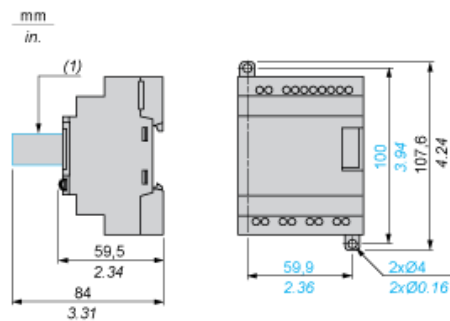
## Compact and Modular Smart Relays

### Mounting on 35 mm/1.38 in. DIN Rail



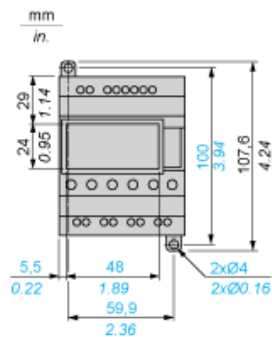
(1) With SR2USB01 or SR2BTC01

### Screw Fixing (Retractable Lugs)



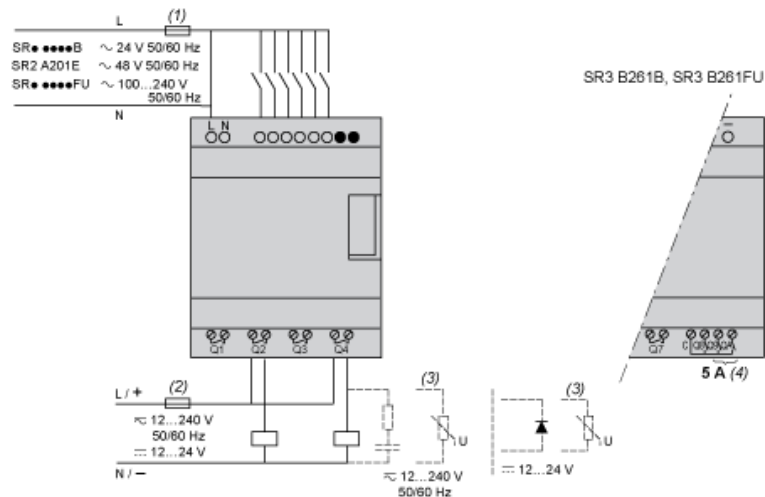
(1) With SR2USB01 or SR2BTC01

### Position of Display



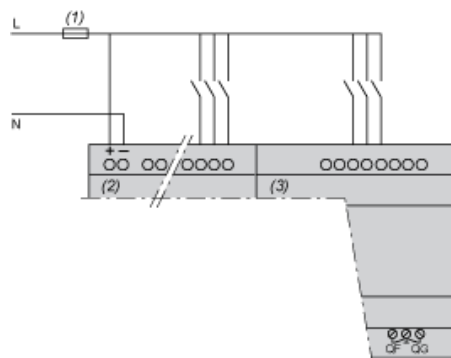
## Connection of Smart Relays on AC Supply

### SR...1B, SR...1FU



### With Discrete I/O Extension Module

SR3B...B + SR3XT...B, SR3B...FU + SR3XT...FU

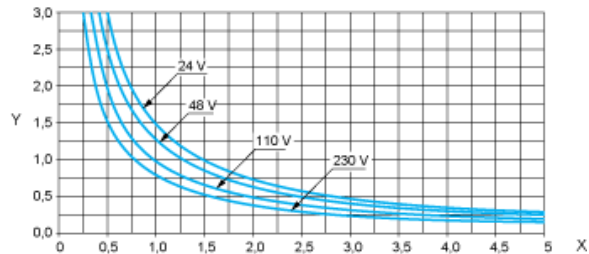


## Compact and Modular Smart Relays

### Electrical Durability of Relay Outputs

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

#### AC-12 (1)

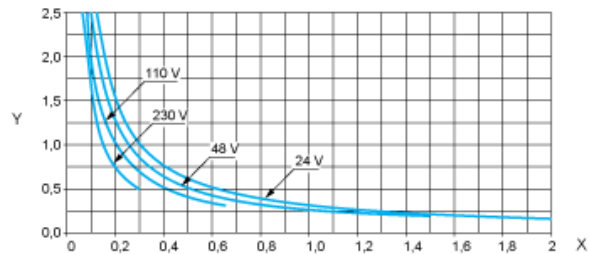


X: Current (A)

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)

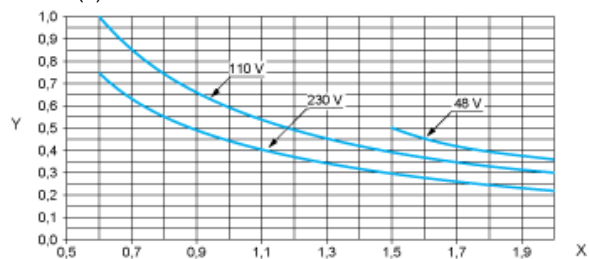


X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads  $\leq 72$  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  $\geq 72$  VA, make:  $\cos = 0.7$ , break:  $\cos = 0.4$ .