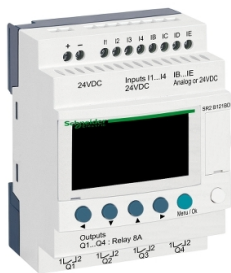


# Product datasheet

Specifications



## Compact smart relay, Zelio Logic, 12 I/O, 24 V AC, clock, display

SR2B121BSP001

 **Discontinued on:** 7 Aug 2023

 **Discontinued**

### Main

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

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local display                          | With                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cycle time                             | 6...90 ms                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Backup time                            | 10 years at 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clock drift                            | 12 min/year at 0...55 °C<br>6 s/month at 25 °C                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Us] rated supply voltage              | 24 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power consumption in VA                | 4 VA without extension                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protection type                        | Against inversion of terminals (control instructions not executed)                                                                                                                                                                                                                                                                                                                                                                             |
| Discrete input number                  | 8                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Discrete input voltage                 | 24 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Discrete input frequency               | 57...63 Hz<br>47...53 Hz                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Analogue input number                  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of outputs                      | 4 relay                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Output voltage limits                  | 5...30 V DC (relay output)<br>24...250 V AC                                                                                                                                                                                                                                                                                                                                                                                                    |
| Output thermal current                 | 8 A for all 4 outputs for relay output                                                                                                                                                                                                                                                                                                                                                                                                         |
| Electrical durability                  | AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to IEC 60947-5-1<br>AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to IEC 60947-5-1<br>DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to IEC 60947-5-1<br>DC-13: 500000 cycles at 24 V, 0.6 A for relay output conforming to 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<br>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                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 |
| Overvoltage category                   | III conforming to IEC 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                  |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|            |         |
|------------|---------|
| Net weight | 0.25 kg |
|------------|---------|

## Environment

|                                       |                                                                                                                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | 10 ms repeated 20 times                                                                                                                                                                                                                  |
| Product certifications                | GL<br>C-Tick<br>UL<br>CSA<br>GOST                                                                                                                                                                                                        |
| Standards                             | IEC 61000-4-11<br>IEC 61000-4-4 level 3<br>IEC 60068-2-27 Ea<br>IEC 61000-4-5<br>IEC 61000-4-2 level 3<br>IEC 61000-4-6 level 3<br>IEC 60068-2-6 Fc<br>IEC 61000-4-12<br>IEC 61000-4-3                                                   |
| IP degree of protection               | IP20 (terminal block) conforming to IEC 60529<br>IP40 (front panel) conforming to IEC 60529                                                                                                                                              |
| Environmental characteristic          | EMC directive conforming to IEC 61000-6-2<br>EMC directive conforming to IEC 61000-6-3<br>EMC directive conforming to IEC 61000-6-4<br>EMC directive conforming to IEC 61131-2 zone B<br>Low voltage directive conforming to IEC 61131-2 |
| Disturbance radiated/conducted        | Class B conforming to EN 55022-11 group 1                                                                                                                                                                                                |
| Pollution degree                      | 2 conforming to 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<br>-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

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 122 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3] | 29 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0.5 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 91 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.6 kg CO2 eq.                                |

## Use Better



### Materials and Substances

|                   |                                        |
|-------------------|----------------------------------------|
| SCIP Number       | Eee2fc35-1620-4b70-b1d5-206e9240044e   |
| EU RoHS Directive | <a href="#">Compliant By Exemption</a> |
| PVC free          | Yes                                    |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 0                                                                                                                                                                                                               |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |