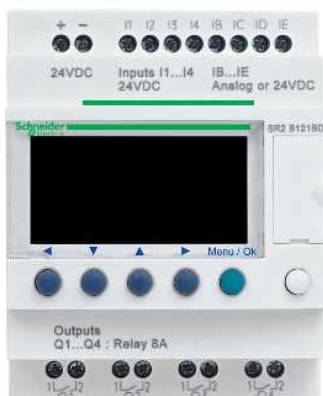




## Main

|                           |                         |
|---------------------------|-------------------------|
| Commercial Status         | Commercialised          |
| Range of product          | Zelio Logic             |
| Product or component type | Compact discovery packs |
| Discrete input number     | 8                       |
| Number of outputs         | 4 relay output(s)       |

## Complementary

|                                |                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------|
| Kit composition                | Cable PC SR2USB01 for connection to PC<br>SR2B121FU<br>Zelio Soft 2 programming software CD-ROM |
| Input/Output number            | 12                                                                                              |
| Local display                  | With                                                                                            |
| Number of control scheme lines | 120 with ladder programming<br>≤ 200 with FBD programming                                       |
| Cycle time                     | 6...90 ms                                                                                       |
| Backup time                    | 10 years at 25 °C                                                                               |
| Clock drift                    | 6 s/month at 25 °C<br>12 min/year at 0...55 °C                                                  |
| Checks                         | Program memory on each power up                                                                 |
| [Us] rated supply voltage      | 100...240 V                                                                                     |
| Supply voltage limits          | 85...264 V                                                                                      |
| Supply frequency               | 50/60 Hz                                                                                        |
| Supply current                 | 80 mA at 100 V (without extension)<br>30 mA at 240 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 voltage         | 100...240 V AC                                                                                  |
| Discrete input current         | 0.6 mA                                                                                          |
| Discrete input frequency       | 47...53 Hz<br>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)                                                                       |
| Output voltage limits          | 5...30 V DC (relay output)<br>24...250 V AC                                                     |
| Contacts type and composition  | NO for relay output                                                                             |
| Output thermal current         | 8 A for all 4 outputs (relay output)                                                            |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability                  | 500000 cycles DC-13 at 24 V, 0.6 A for relay output conforming to EN/IEC 60947-5-1<br>500000 cycles DC-12 at 24 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1<br>500000 cycles AC-15 at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1<br>500000 cycles AC-12 at 230 V, 1.5 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                   | 10 Hz (no load) for relay output<br>0.1 Hz (at Ie) for relay output                                                                                                                                                                                                                                                                                                                                                                                 |
| Mechanical durability                  | 10000000 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                          | 50...255 ms with FBD programming (from state 1 to state 0) for discrete input<br>50...255 ms with FBD programming (from state 0 to state 1) for discrete input<br>50 ms with ladder programming (from state 1 to state 0) for discrete input<br>50 ms with ladder programming (from state 0 to state 1) for discrete input<br>5 ms (from state 1 to state 0) for relay output<br>10 ms (from state 0 to state 1) for relay output                   |
| Connections - terminals                | Screw terminals, clamping capacity: 2 x 0.25...2 x 0.75 mm² AWG 24...18 flexible with cable end<br>Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm² AWG 24...16 solid<br>Screw terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm² AWG 24...14 flexible with cable end<br>Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm² AWG 25...14 solid<br>Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm² AWG 25...14 semi-solid |
| Tightening torque                      | 0.5 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Overvoltage category                   | III conforming to EN/IEC 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product weight                         | 0.7 kg                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

|                                       |                                                                                                                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | <= 10 ms                                                                                                                                                                                                                                                |
| Product certifications                | CSA<br>C-Tick<br>GL<br>GOST<br>UL                                                                                                                                                                                                                       |
| Standards                             | EN/IEC 60068-2-27 Ea<br>EN/IEC 60068-2-6 Fc<br>EN/IEC 61000-4-11<br>EN/IEC 61000-4-12<br>EN/IEC 61000-4-2 level 3<br>EN/IEC 61000-4-3<br>EN/IEC 61000-4-4 level 3<br>EN/IEC 61000-4-5<br>EN/IEC 61000-4-6 level 3                                       |
| IP degree of protection               | IP40 (front panel) conforming to IEC 60529<br>IP20 (terminal block) conforming to IEC 60529                                                                                                                                                             |
| Environmental characteristic          | Low voltage directive conforming to EN/IEC 61131-2<br>EMC directive conforming to EN/IEC 61131-2 zone B<br>EMC directive conforming to EN/IEC 61000-6-4<br>EMC directive conforming to EN/IEC 61000-6-3<br>EMC directive conforming to EN/IEC 61000-6-2 |
| 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...55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2<br>-20...40 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2                                                                                                      |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                                                                                                                             |
| Operating altitude                    | 2000 m                                                                                                                                                                                                                                                  |
| Altitude transport                    | <= 3048 m                                                                                                                                                                                                                                               |
| Relative humidity                     | 95 % without condensation or dripping water                                                                                                                                                                                                             |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

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