

# Product data sheet

Specifications



compact discovery packs, Zelio  
Logic SR2 SR3, smart relay  
discovery pack, 12 IO, 24V DC

SR2PACKBD

Product availability: Non-Stock - Not normally stocked in  
distribution facility

Price\*: 378.00 USD

## Main

|                           |                         |
|---------------------------|-------------------------|
| Range of Product          | Zelio Logic             |
| Product or Component Type | Compact discovery packs |
| Discrete input number     | 8 IEC 61131-2 Type 1    |
| Number of outputs         | 4 relay                 |

## Complementary

|                                |                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------|
| Kit composition                | SR2B121BD<br>Cable PC SR2USB01 for connection to PC                                                        |
| Input/output number            | 12                                                                                                         |
| Local display                  | With                                                                                                       |
| Number or control scheme lines | 120 ladder<br>0...200 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                                                                                                       |
| Supply voltage limits          | 19.2...30 V                                                                                                |
| Maximum supply current         | 100 mA without extension)                                                                                  |
| Power dissipation in W         | 3 W without extension                                                                                      |
| Reverse polarity protection    | With                                                                                                       |
| Discrete input type            | Resistive                                                                                                  |
| Discrete input voltage         | 24 V DC                                                                                                    |
| Discrete input current         | 4 mA                                                                                                       |
| Counting frequency             | 1 kHz discrete input                                                                                       |
| Voltage state 1 guaranteed     | >= 15 V I1...IA and IH...IR discrete input circuit<br>>= 15 V IB...IG used as discrete input circuit       |
| Voltage state 0 guaranteed     | <= 5 V I1...IA and IH...IR discrete input circuit<br><= 5 V IB...IG used as discrete input circuit         |
| Current state 1 guaranteed     | >= 1.2 mA IB...IG used as discrete input circuit)<br>>= 2.2 mA I1...IA and IH...IR discrete input circuit) |

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

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

|                                        |                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current state 0 guaranteed             | <= 0.5 mA IB...IG used as discrete input circuit)<br><= 0.75 mA I1...IA and IH...IR discrete input circuit)                                                                                                                                                                                                                                                                   |
| Input compatibility                    | 3-wire proximity sensors PNP discrete input                                                                                                                                                                                                                                                                                                                                   |
| Analogue input number                  | 4                                                                                                                                                                                                                                                                                                                                                                             |
| Analogue Input Type                    | Common mode                                                                                                                                                                                                                                                                                                                                                                   |
| Analogue input range                   | 0...10 V<br>0...24 V                                                                                                                                                                                                                                                                                                                                                          |
| Temperature probe type                 | NTC 10k 77 °F (25 °C)<br>NTC 1000k 77 °F (25 °C)<br>KTY81 210/220/221/222/250<br>Pt 500                                                                                                                                                                                                                                                                                       |
| Maximum permissible voltage            | 30 V analogue input circuit                                                                                                                                                                                                                                                                                                                                                   |
| Analogue input resolution              | 8 bits                                                                                                                                                                                                                                                                                                                                                                        |
| LSB value                              | 39 mV analogue input circuit                                                                                                                                                                                                                                                                                                                                                  |
| Conversion time                        | Smart relay cycle time analogue input circuit                                                                                                                                                                                                                                                                                                                                 |
| Conversion error                       | +/- 5 % 77 °F (25 °C) analogue input circuit<br>+/- 6.2 % 131 °F (55 °C) analogue input circuit                                                                                                                                                                                                                                                                               |
| Repeat accuracy                        | +/- 2 % 131 °F (55 °C) analogue input circuit                                                                                                                                                                                                                                                                                                                                 |
| Operating distance                     | 10 m between stations, with screened cable (sensor not isolated) analogue input circuit                                                                                                                                                                                                                                                                                       |
| Input impedance                        | 12 kOhm IB...IG used as analogue input circuit<br>12 kOhm IB...IG used as discrete input circuit<br>7.4 kOhm I1...IA and IH...IR discrete input circuit                                                                                                                                                                                                                       |
| Output voltage limits                  | 24...250 V AC relay output)<br>5...30 V DC relay output)                                                                                                                                                                                                                                                                                                                      |
| 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 IEC 60947-5-1<br>AC-15 500000 cycles 230 V, 0.9 A relay output IEC 60947-5-1<br>DC-12 500000 cycles 24 V, 1.5 A relay output IEC 60947-5-1<br>DC-13 500000 cycles 24 V, 0.6 A relay output 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 conforming to EN/IEC 60947-1 and EN/IEC 60664-1                                                                                                                                                                                                                                                                                                                          |
| Clock                                  | With                                                                                                                                                                                                                                                                                                                                                                          |
| Response time                          | 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 mm² AWG 25...AWG 14) semi-solid<br>screw terminals, 1 x 0.2...1 x 2.5 mm² AWG 25...AWG 14) solid<br>screw terminals, 1 x 0.25...1 x 2.5 mm² AWG 24...AWG 14) flexible with cable end<br>screw terminals, 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16) solid<br>screw terminals, 2 x 0.25...2 x 0.75 mm² AWG 24...AWG 18) flexible with cable end |
| tightening torque                      | 4.4 lbf.in (0.5 N.m)                                                                                                                                                                                                                                                                                                                                                          |
| Overvoltage category                   | III conforming to IEC 60664-1                                                                                                                                                                                                                                                                                                                                                 |
| Net Weight                             | 1.5 lb(US) (0.7 kg)                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                         |      |
|-------------------------|------|
| Immunity to microbreaks | 1 ms |
|-------------------------|------|

|                                       |                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Certifications                | CSA<br>C-tick<br>UL<br>GOST<br>GL                                                                                                                                                      |
| Standards                             | IEC 61000-4-4 level 3<br>IEC 61000-4-12<br>IEC 61000-4-5<br>IEC 60068-2-6 Fc<br>IEC 61000-4-2 level 3<br>IEC 61000-4-6 level 3<br>IEC 61000-4-3<br>IEC 61000-4-11<br>IEC 60068-2-27 Ea |
| IP degree of protection               | IP20 IEC 60529 terminal block)<br>IP40 IEC 60529 front panel)                                                                                                                          |
| Environmental characteristic          | EMC directive IEC 61000-6-2<br>EMC directive IEC 61000-6-3<br>EMC directive IEC 61000-6-4<br>EMC directive IEC 61131-2 zone B<br>low voltage directive IEC 61131-2                     |
| Disturbance radiated/conducted        | Class B EN 55022-11 group 1                                                                                                                                                            |
| Pollution degree                      | 2 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            | 10000.0000000000 ft (3048 m)                                                                                                                                                           |
| Relative Humidity                     | 95 % without condensation or dripping water                                                                                                                                            |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1000I22378  |
| Discount Schedule | 000I          |
| GTIN              | 3389110549386 |
| Returnability     | No            |
| Country of origin | FR            |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 2.56 in (6.500 cm)    |
| Package 1 Width              | 6.10 in (15.500 cm)   |
| Package 1 Length             | 9.25 in (23.500 cm)   |
| Package 1 Weight             | 13.968 oz (396.000 g) |
| Unit Type of Package 2       | S03                   |
| Number of Units in Package 2 | 10                    |
| Package 2 Height             | 11.81 in (30.000 cm)  |
| Package 2 Width              | 11.81 in (30.000 cm)  |
| Package 2 Length             | 15.75 in (40.000 cm)  |

|                  |                         |
|------------------|-------------------------|
| Package 2 Weight | 9.822 lb(US) (4.455 kg) |
|------------------|-------------------------|

## Contractual warranty

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

# 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

|                                                |     |
|------------------------------------------------|-----|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 148 |
|------------------------------------------------|-----|

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
|--------------------------|-----------------------------------------------|

## Use Better

### Materials and Substances

|                                        |    |
|----------------------------------------|----|
| Packaging made with recycled cardboard | No |
|----------------------------------------|----|

|                                      |     |
|--------------------------------------|-----|
| Packaging without single use plastic | Yes |
|--------------------------------------|-----|

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
|-------------------|------------------------------------------------------------|

|             |                                      |
|-------------|--------------------------------------|
| SCIP Number | Eee2fc35-1620-4b70-b1d5-206e9240044e |
|-------------|--------------------------------------|

|                  |                                   |
|------------------|-----------------------------------|
| REACH Regulation | <a href="#">REACH Declaration</a> |
|------------------|-----------------------------------|

|                       |                                        |
|-----------------------|----------------------------------------|
| China RoHS Regulation | <a href="#">China RoHS declaration</a> |
|-----------------------|----------------------------------------|

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](http://www.P65Warnings.ca.gov)

PVC free

Yes

Use Again

 Repack and remanufacture

Circularity Profile

[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.

Take-back

No