Smart relays

Zelio Logic

Your advanced solution!
Zelio Logic: Unequalled flexibility...

Welcome to the Simply Smart world, compliments of Telemecanique.

Designed for the management of simple automation systems, the new generation of Zelio Logic smart relays provides you with considerable gains from the design stage to the monitoring of your applications due to its flexibility and simplicity.

A solution for each requirement:

- 2 ranges to choose from: compact and modular.
- An advanced solution that takes into account specification variations, due to quick and high performance programming.
- Real programming using FBD (Functional Block Diagram) function block or contact language (LADDER).
- Programming and parametering to suit you:
  - directly using the buttons on the smart relay by contextual navigation, with excellent legibility provided by a back-lit LCD display, which is the largest on the market,
  - on a PC using Zelio Soft ergonomic software.

You seek an optimised solution for your simple automation systems comprising 10 to 20 I/O?

With Zelio Logic Compact, optimise installation time, programming time and the cost of your application.

- 3 monobloc models with 10, 12 or 20 I/O: versions with and without display and buttons.

You seek a solution for more demanding applications comprising up to 40 I/O?

Zelio Logic Modular provides you with performance and flexibility...

- 2 bases, 10 and 26 I/O, expandable up to 40 I/O,
- 3 input/output expansion modules: 6, 10 and 14 I/O,
- 1 Modbus communication expansion module,
  - for new functions and programming capabilities.

* Simply Smart: more ingenuity and intelligence for continually improving ease of use
… for a solution optimised to your applications...

... comprising 10 to 40 inputs/outputs:

**Industry**
- Small machinery automation systems,
- Decentralised automation systems supplementary to large and medium size machinery.

**Buildings/Services**
- Lighting management,
- Access, control and surveillance management,
- Heating and air conditioning management.

Perfect suitability for all your applications thanks to a complete offer of Telemecanique products, from relays to the Nano PLC.

Discover Zelio Logic for your applications with the starter packs.

Zelio Logic

Twido programmable controller

Zelio relay range
Simplicity at every stage to save time and improve reliability!

Programming and parametering accessible to all:

- directly on the relay*, with outstanding user-friendliness (without PC):
  - back-lit LCD display, the largest on the market: 4 lines of 18 characters and 1 line of icons.
  - contextual navigation:
    6 buttons for simple programming, parametering and setting-up.

- on a PC using Zelio Soft interactive software comprising:
  - the programming software
  - a self-training module
  - a library of applications
  - technical instructions

All information and help for programming on a single CD!

- Power supply / Inputs
  12V DC,
  24V DC,
  24V AC,
  100 - 240V AC

- Inputs
  Limit switches, 3-wire inductive sensors, sensors and potentiometers (0-10V)

- Interface
  PC programming, EEPROM memory card, Modem link.

- Outputs
  Relay, transistor

- Back-up of data + date and time: 10 years!

- Standards and certifications:

Simplified setting-up

- Simple to assemble
  Add expansions on the modular range by simple clipping-on (locating studs).

- Simple to mount
  Fixing without accessories: DIN rail or panel mounting (retractable fixing lugs).

- Simple to integrate
  Extreme compactness for reducing the size of your enclosures (H 90 x W 71.2 x D 59 mm for 12 I/O model).

* Programming using the relay buttons only in LADDER, parametering in FBD or LADDER.
Programming freedom...
Zelio Soft speaks your language!

Whatever your choice of language or type of automation system, Zelio Logic meets all your requirements!

**LADDER language:**

*simplicity* of programming assured by the universality of the *contact language:*

- User-friendliness of the "free input" mode: LADDER or electrical symbols
- 120 lines of control schemes
- 5 contacts + 1 coil per programming line
- New functions:
  - 16 text function blocks,
  - 16 timers,
  - 16 up/down counters,
  - 1 fast counter,
  - 16 analogue comparators,
  - 8 clocks,
  - 28 auxiliary relays,
  - 8 counter comparators,
  - LCD screen with programmable back-lighting,
  - Automatic 1 hour clock change: summer/winter,
  - Diversity of coil functions; with memory (set/reset), remote switch, contactor.

**FBD language:**

*programming flexibility* and *high capacity* of processing up to 200 function blocks, which include:

- 23 pre-programmed functions
- Grafset SFC (Sequential Function Chart) functions: for sequential automation systems
- 6 logic functions
- Inputs/outputs

**Quick programming... and safe!**

- *Coherence test:* at the slightest input error, Zelio Soft turns red and precisely locates the problem.
- *Simulation and monitoring modes:* test the programme in real time, with or without the smart relay connected to the PC.
- *Supervision window:* enables viewing the I/O states of the smart relay in your application environment (drawing or image).
- *On line help*
Compatibility
to ensure
performance
at no extra cost

- Zelio Logic: complete
  synergy with other
  Telemecanique
  automation
  system products.

A unique partner,
a global presence

Constantly available
worldwide

- With more than 5000 points of sale in
  130 countries, you can be sure to find
  the range of products which is right for
  you and which complies fully with the
  standards in the country in which they
  are to be used.

Technical assistance
wherever you are

- Our technicians are at your disposal
  to assist you in finding the optimum
  solution for your particular needs. Schneider
  provides you with all necessary technical assistance,
  throughout the world.
## Selection guide

<table>
<thead>
<tr>
<th>Voltage supply</th>
<th>No. of I/O</th>
<th>Discrete inputs</th>
<th>Including 0-10V analogue inputs</th>
<th>Outputs</th>
<th>Clock</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zelio Logic Compact with or without display</strong>&lt;br&gt;&lt;br&gt; With display&lt;br&gt;--- 12 V</td>
<td>12</td>
<td>8</td>
<td>4</td>
<td>4 O relay</td>
<td>Yes</td>
<td>SR2B121JD</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>12</td>
<td>6</td>
<td>8 O relay</td>
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<td>SR2B201JD</td>
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<td>12</td>
<td>8</td>
<td>4</td>
<td>4 O relay</td>
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<td>SR2B121BD(2)</td>
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<tr>
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<td>20</td>
<td>12</td>
<td>6</td>
<td>8 O relay</td>
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<td>SR2A101BD(1)</td>
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<tr>
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<td>12</td>
<td>8</td>
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<td>4 O relay</td>
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<td>SR2B201BD(2)</td>
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<td>8</td>
<td>4</td>
<td>4 O relay</td>
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<td>SR2B121BD(2)</td>
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<td>20</td>
<td>12</td>
<td>6</td>
<td>8 O relay</td>
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<td>SR2A201BD(1)</td>
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<td>12</td>
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<td>8</td>
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<td>4 O relay</td>
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<td>SR2B201BD(2)</td>
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<td>12</td>
<td>6</td>
<td>8 O relay</td>
<td>No</td>
<td>SR2A201FU(1)</td>
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<td>4 O relay</td>
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<td>8 O relay</td>
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<td>SR2B201FU(2)</td>
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<tr>
<td><strong>Zelio Logic Modular</strong>&lt;br&gt;&lt;br&gt; With display&lt;br&gt;--- 24 V</td>
<td>10</td>
<td>6</td>
<td>4</td>
<td>4 O relay</td>
<td>Yes</td>
<td>SR3B101BD</td>
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<td></td>
<td>26</td>
<td>16</td>
<td>6</td>
<td>10 O relay</td>
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<td>SR3B101BD</td>
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<td>16</td>
<td>8</td>
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<td>10 O relay</td>
<td>Yes</td>
<td>SR3B101FU</td>
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<tr>
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<td>16</td>
<td>6</td>
<td>10 O relay</td>
<td>Yes</td>
<td>SR3B261FU</td>
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<td>10 O relay</td>
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<td>SR3B101BD</td>
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<tr>
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<td>26</td>
<td>16</td>
<td>6</td>
<td>10 O relay</td>
<td>Yes</td>
<td>SR3B261FU</td>
</tr>
</tbody>
</table>
| *LADDER programming only.*

1. Replace the letter A by the letter D to order a Zelio Logic Compact without display (example: SR2D101BD)
2. Replace the letter B by the letter E to order a Zelio Logic Compact without display (example: SR2E121BD)

**I/O expansion and communication modules**

<table>
<thead>
<tr>
<th>For use with</th>
<th>No. of I/O</th>
<th>Inputs, Discrete</th>
<th>Relay outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only for use with Zelio Logic</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Moduar</td>
<td>10</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>

*Each modular base can be fitted with one communication module and one I/O expansion module.*

3. Replace **BD** by **24 V** supply, **BD** by **24 V** or by **FU** for **~ 100...240 V** supply.

**Voltage supply**

<table>
<thead>
<tr>
<th>Composition</th>
<th>No. of I/O</th>
<th>SR2PACKBD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zelio Logic Compact</strong>&lt;br&gt;--- 24 V</td>
<td>12</td>
<td>1 x SR2B121BD relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>1 x SR2B201BD relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>1 x SR2B121FU relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>1 x SR2B201FU relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td><strong>Zelio Logic Modular</strong>&lt;br&gt;--- 24 V</td>
<td>10</td>
<td>1 x SR3B101BD relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>1 x SR3B261BD relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>1 x SR3B101FU relay + 1 connecting cable + 1 software CD</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>1 x SR3B261FU relay + 1 connecting cable + 1 software CD</td>
</tr>
</tbody>
</table>

**Power supply units**

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>Nominal output voltage</th>
<th>Nominal output current</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 to 240 V</td>
<td>12 V</td>
<td>1.9 A</td>
</tr>
<tr>
<td>(47...63 Hz)</td>
<td>24 V</td>
<td>1.4 A</td>
</tr>
</tbody>
</table>

**Description**

*Availability 1st half 2004.*

4. To order the desired language for the user's guide replace **BD** by: **EN** for English, **FR** for French, **DE** for German, **IT** for Italian, **PO** for Portuguese, **SP** for Spanish.
Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.