Zelio-Logic Relays

File 8501





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Schneider Electric

Zelio-Logic Relay Overview

The Zelio-Logic relay is more than a typical relay. It will accept inputs, and has relay outputs like a programmable controller, but can not be connected to a network. Because it has timers, counters and clocks that can be programmed, this product is ideal for applications where a typical relay, timer or time clock isn't enough, but a PLC is not justified.

- The Zelio-Logic relay is designed for use in small automated systems.
- It can be used in industrial and commercial applications.
- Its small size and ease of programming provides a competitive alternative to traditional relays, timers and counters.
- Programming can be done on the relay or by using the Zelio-Soft software on your windows based computer.
- Zelio-Logic relays with four outputs will accept a 60 line program.
- Zelio-Logic Relays with eight outputs will accept a 80 line program.
- · Programming in Zelio-Soft can be done in ladder logic, electrical symbols or Zelio symbols.

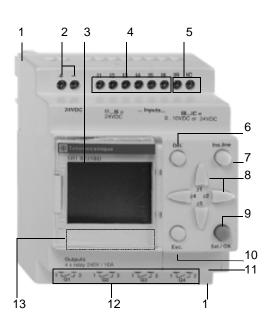
Description

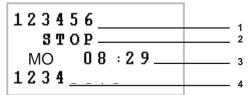
- 1. Retractable mounting feet
- 2. Power supply terminals
- 3. LCD display (4 lines, 12 characters)
- 4. Input terminals
- 5. Analog input terminals (0-10 V or 24 Vdc)
- 6. Delete or Cancellation button
- 7. Insert a new line button
- 8. Navigational keys or Input keys in RUN mode
- 9. Selection or validation button
- 10. Escape button
- Slot for memory back-up EEPROM cartridge or cable connection for down loading or uploading of programs.
- 12. Relay output terminals
- 13. Marking area

Main Zelio-Logic Screen

- 1. Status of inputs
- 2. RUN or STOP mode indication
- 3. Indication of a parameter (day and time is default for relays with a clock)
- 4. Status of outputs

The dc relays have a fast input function "FILT". This function allows faster detection of changes in state of the inputs. This mode should only be used when necessary as it makes the relay inputs more sensitive to interference and contact bounce. A "Fast" or "Slow" choice is available.







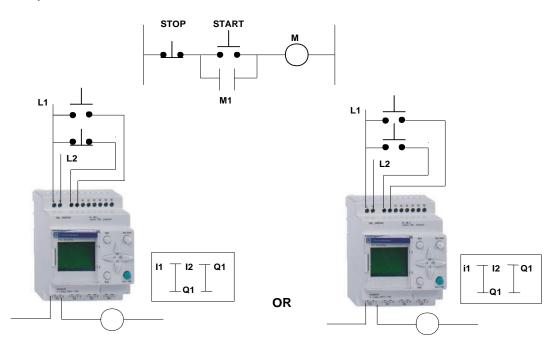
Zelio-Logic Relay

www.Overview.com

| Function | | Electrical Scheme | Ladder Language | Zelio Relay Symbol | Notes |
|----------------------|----------------|-------------------|-----------------|--------------------|--|
| Contact | N.O. SPSTNO | 14 13 | | lx 🔺 | I corresponds to the real image of the contact connected to the input of the module. |
| | N.C. SPSTNC | 22 21 | | lx 🔺 | i (I) corresponds to the reversed image of the contact connected to the input of the module. |
| Standard Coil | | A2 | -() | Qx | The coil is energized when the contacts to which it is connected are closed. |
| Latch Coil (Set) | | A2 A1 | -(s)- | SQ | The coil is energized when the contacts to which it is connected are closed. It remains energized when the contacts re-open. |
| Unlatch Coil (Reset) | | | —(R)— | RQ | The coil is de-energized when the contacts to which it is connected are closed. It remains inactive when the contacts re-open. |

▲ ix will work the inverse of Ix.

Example:



Eight Time Delay Functions (provided as standard in all relays)

Each timer function can be programmed to function in one of the following eight modes: ∟ѧ On-Delay Т t=00.00s TT1 🔟 a On-Delay (with momentary input) 2 t=00.00s Ъ тт1 _C Т. RT. T. L=00.00s Off-Delay Ы TT1 RT. T. L t=00.005 в One Shot тт1 ___ W One Shot (when input is removed) t=00.00s 2 тт1 ு Lр RТ. Т. t=00.00s Repeat Cycle (with maintained input) a тт1 d RТ. · ______ · __[L_____ t=00.00s Repeat Cycle (with momentary input) т. 2 TT1 _1_ 12 Ղ⊤ R T T Totalizing Timer with Reset -Г 1 2Σt=00.00s Each timer function has a preset time in one of four timing ranges:

| 00.00 s (1/100 of a second) | Maximum of 99.99 seconds |
|------------------------------|---|
| 000.0 s (1/10 of a second) | Maximum of 999.9 seconds (16.665 minutes) |
| 00:00 M:S (Minutes: Seconds) | Maximum of 99:59 |
| 00:00 H:M (Hours: Minutes) | Maximum of 99:59 |
| | |

The time setting on each timer can be locked. A password is required to unlock the timer.

Eight Counters (provided as standard in all relays)

Count up and/or count down. Each counter function can have a preset value of 0000 to 9999. The counter setting on each counter can be locked. A password is required to unlock the counter.

For more information on these timers and counters, refer to the User's Manual #SR1MAN01EN.



Zelio-Logic Relay www.Overview.of Functions

Φ1

ABCD

O N

OFF

Some Versions Come With Four 24 Hour - 7 Day Clocks:

On each clock you can set:

Example:

ΤU 2.2 — Start Day MO SA 09:00 End Day 13:00

- Start Time Each Day
- End Time Each Day

(Sunday or Monday) (Friday or Saturday) (08:30 or 9:15)

(4:57 or 5:30)

The clock settings on each clock can be locked. A password is required to unlock the counter.

Fifteen Internal Relay Functions (provided as standard in all relays)

- Each internal relay can have multiple contacts that can be used elsewhere in the program.
- Each relay can be either a standard relay, a latching relay, or an unlatching relay.
- The internal relays do not have connection points that could be used to control external loads.
- These relays give much more freedom in programming.

Arrow Keys (4) on the Front of the Relay can be used as Inputs

- They can be used as push buttons in the program.

Some of the 24 Vdc Versions have Analog Inputs

- Analog inputs are only available on some 24 Vdc devices.
- They can except input values 0 through 10 V.

The following seven functions can be performed on the analog inputs:

| Type of Function | Description |
|---|--|
| IB ≤ Ref Al Analoq1 a Ref=4.9V | Contact A1 is closed when the value of analog input IB does not exceed the reference voltage entered in the reference field, 4.9 V in this example. |
| IB ≥ Ref Al Analoq2 ⊇ Ref=4.9V | Contact A1 is closed when the value of analog input IB equals or exceeds the reference voltage entered in the reference field, 4.9 V in this example. |
| IC ≤ Ref Al Analoq3 a Ref=4.9V | Contact A1 is closed when the value of analog input IC does not exceed the reference voltage entered in the reference field, 4.9 V in this example. |
| IC ≥ Ref Al Analoq4 ⊇ Ref=4.9V | Contact A1 is closed when the value of analog input IC equals or exceeds the reference voltage entered in the reference field, 4.9 V in this example. |
| IB ≤ IC Al Analoq5 ⊋ | Contact A1 is closed when the value of analog input IB does not exceed the value of analog input IC. |
| IB ≥ IC Al Analoq6 a | Contact A1 is closed when the value of analog input IB equals or exceeds the value of analog input IC. |
| $IC - H \le IB \le IC + H$ $A1 Analoq7$ $A = 4.9V$ | Contact A1 is closed when the value of analog input IB is between IC-H and IC+H. H (the hysteresis) is entered in the H field, 4.9 V in this example. |

Text messages can be inputted using the Zelio-Soft software and then displayed on the relay.





Can be Used as Inputs

"ZELIO-SOFT": SOFTWARE

"Zelio-Soft" software enables:

- the inputting of control wiring diagrams
- the monitoring of applications, using its test feature
- the inputting of messages for display on the "Zelio-Logic"
- simplification of setting-up

Input Modes for Control Wiring Diagrams

The "Zelio input" mode enables the user, having directly programmed the Zelio relay, to find the same ergonomics, even when using the software for the first time.

The "free input" mode, which is more intuitive, is very user friendly and incorporates several additional features.

Using Zelio-Soft in "free mode" enables the user to select their preferred symbol language from the following 3 alternatives:

- Zelio symbols
- Ladder symbols
- Electrical symbols

The "free input" mode also enables the creation of notes associated to each line of the program.

Instant switching between one input mode and another is simply obtained by clicking the mouse.

Coherence Test and Applicable Language

The coherence test feature of Zelio-Soft monitors the applications and the slightest input error will result in it turning red. A mouse click is all that is required to locate the problem.

At any time, Zelio-Soft can be switched between 6 applicable languages (English, French, German, Italian, Portuguese and Spanish) and also, to the editing of the application file in the selected language. It enables selection of the representation mode (Zelio, Ladder or electrical) for editing the file.

Inputting Messages for Display on Zelio-Logic

Zelio-Soft allows 4 Text function blocks to be configured, corresponding to 4 screens of 4 lines x 12 characters, which can be displayed on all the relays. These screens are activated in the same simple manner as a coil in the control scheme. It is then possible to display messages as text only or to associate them with 1 or 2 variables, the latter being current values, and/or setting of function blocks used in the program.

Simplification of Setting-Up

The Zelio-Soft simulator enables testing of all the programs, i.e.:

- activating the discrete inputs and their N.O. or N.C. contact modes (momentary or maintained)
- indicating the output states
- varying the voltage of the analog inputs IB and IC
- activating the pushbuttons
- simulating the application program in real time and accelerated time
- dynamically indicating in red the various active elements of the program









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Zelio-Logic Relay

Environmental Characteristics

| Product Certifications | | File E164866 CCN NRAQ File E164866 CNN NRAQT CSA File LR203359 Guide 2252 01 CE |
|---|---|--|
| Degree of Protection | | IP 20 |
| Temperature | Operation | 32 °F to 131°F (0 °C to 55 °C) conforming to IEC 60068-2-1 and 60068-2-2 |
| | Storage | -13 °F to 158 °F (-25 °C to 70 °C) conforming to IEC 61131-2 |
| Maximum Relative Humidity | | 95% without condensation or dripping water |
| Altitude | | 0 to 6500 ft (0 to 2000 m) |
| Mechanical Resistance | Immunity to vibration | Conforming to standard IEC 60068-2-6, test Fc |
| Mechanical Resistance | Immunity to mechanical shock | Conforming to standard IEC 60068-2-27, test Ea |
| Resistance to Electrostatic Discharges | Immunity to electrostatic discharges | Conforming to standard IEC 61000-4-2, level 3 ▼ |
| | Immunity to electromagnetic radiated fields | Conforming to standard IEC 61000-4-3, level 3 ▼ |
| Resistance to HF Interference | Immunity to rapid, pulsed, transients | Conforming to standard IEC 61000-4-4, level 3 ▼ |
| | Immunity to surges | Conforming to standard IEC 61000-4-5 |
| | Immunity to damped oscillatory waves | Conforming to standard IEC 61000-4-12 |

Supply Characteristics

| Module Type | | | SR1••••BD | SR1••01FU |
|------------------------------|----------------------|---------------------------|---|---|
| | Valtaga | Nominal | 24 Vdc | 100 to 240 Vac |
| | Voltage | Limits (including ripple) | 19.2 to 30 Vdc | 85 to 264 Vac |
| | Frequency | Nominal (limits) | | 50-60 Hz (47-63) |
| Primary | Current | Nominal of input | SR1•1•1BD: 85 mA SR1•201BD: 130 mA SR1B122BD: 45 mA | SR1•101FU: 100 Vac ≤ 50 mA, 240 Vac ≤ 27 mA SR1•201FU: 100 Vac ≤ 27 mA, 240 Vac ≤ 40 mA |
| | Power Dissipation | Nominal of input | SR1•1•1BD: 1.6 W SR1•201BD: 2.9 W | SR1•101FU: 3 W SR1•201FU: 5.3 W |
| | Micro-breaks | Acceptable duration | \leq 1 ms, repeated 20 times | \leq 10 ms, repeated 20 times |
| Isolation Primary/ ground | | - | 2000 V / 50-60 Hz | |
| Protection | | | Reverse polarity protected | - |

Discrete 24 VDC Input Characteristics

| Madula Tura | | | SR1••••BD | SR1B•••BD / SR1E•••BD | |
|-----------------------------|---------------|---------------------------|------------------------------|------------------------|--|
| Module Type | | Input | I1 to I6 | IB and IC | |
| Connection | | | screw terminals | screw terminals | |
| | | Voltage | 24 Vdc | 24 Vdc | |
| Nominal Value | is of inputs | Current | 3 mA | 0.62 mA | |
| | A+ 01-1- 4 | Voltage | ≥ 15 V | ≥ 9.9 V | |
| Input | At State 1 | Current | > 1.8 mA | 0.16 mA | |
| Switching Limit Values | At State 0 | Voltage | < 5 V | < 5 V | |
| | | Current | < 0.5 mA | 0.8 mA | |
| Input Impedance at State 1 | | | 8 kΩ | 38 kΩ | |
| O a stimura bla | | State 0 to State 1 | 0.3 ms (fast) to 3 ms (slow) | 3 ms (nonconfigurable) | |
| Configurable F | Response Time | State 1 to State 0 | 0.5 ms (fast) to 5 ms (slow) | 5 ms (nonconfigurable) | |
| Conformity to | IEC 61131-2 | | Yes, Type 1 | No | |
| 3-wire Sensor Compatibility | | | Yes | Yes | |
| Type of Input | | | Resistive | Resistive | |
| Isolation | | Between supply and inputs | None | None | |
| | | Between inputs | None | None | |

▼ Minimum level under test conditions defined by the standards.



100 to 240 Vac Input Characteristics

| Relay Type | | | SR1••01FU | | |
|------------------------------|--------------------|---------------|--|--|--|
| Connection | | | Screw terminals | | |
| | Voltage | | 100 to 240 Vac | | |
| Neminal Values of Innuts | Current | 115 V | 0.65 mA | | |
| Nominal Values of Inputs | Current | 240 V | 1.3 mA | | |
| | Frequency | | 47-63 Hz | | |
| | At State 1 | Voltage | ≥79 V | | |
| | | Current | \geq 0.4 mA (for U = 240 V) | | |
| Input Switching Limit Values | At state 0 | Voltage | < 40 V | | |
| | | Current | < 0.3 mA | | |
| Deenenee Time | State 0 to state 1 | 50/60 Hz | 45-50 ms (U = 110 V), 85-90 ms (U = 240 V) | | |
| Response Time | State 1 to state 0 | 50/60 Hz | 45-50 ms (U = 110 V), 18-22 ms (U = 240 V) | | |
| loolotion | Between supp | ly and inputs | None | | |
| Isolation | Between inputs | | None | | |

Integral Analog Input Characteristics

| Relay Type | | SR1B••••BD or SR1E121BD |
|-----------------|---------------------------------|---|
| | Number of channels | 2 |
| | Voltage range of input | 0-10 V |
| Analog Inputs | Input impedance | 62.5 kΩ |
| | Maximum non destructive voltage | ± 30 V |
| | Resolution | 8 bits |
| | Conversion time | Relay cycle time |
| Conversion | Precision @ 25 °C | ± 1.6% of the full range |
| | @ 60 °C | ± 2.9% of the full range |
| | Repeat accuracy @ 55 °C | < 0.1% of the full range |
| Isolation | Between analog channel & supply | None |
| Wiring Distance | | 10 m maximum with shielded cable (sensor nonisolated) |

_ 9

| Relay Type | | | SR1•1•1BD, SR1•101FU | SR1•201BD, SR1•201FU | |
|---------------------------------|----------------------------------|---|---|----------------------|--|
| Number of Outputs | Without common potential | | 4 | 8 | |
| Operating Limit Values | | | 5-150 Vdc, 24-250 Vac | | |
| Contact Type | | | N.O. | | |
| Thermal Current | | | 8 A | | |
| | | DC-12 | 24 Vdc | | |
| | | DC-12 | 1.5 A | | |
| | | DC-13 | 24 Vdc L/R = 10 ms | | |
| Electrical Durability | Utilization | DC-13 | 0.6 A | | |
| for 500,000 Operating Cycles | category | 40.40 | 230 Vac | | |
| | | AC-12 | 1.5 A | | |
| | | 10.15 | 230 Vac | | |
| | | AC-15 | 0.9 A | | |
| Minimum Switching Capacity | At 5 V minimu | im voltage | 10 mA | | |
| Low Power Switching | | | 17 V - 5 mA | | |
| Reliability of Contact | | | Failure rate for 100 million operating cycles: 1 | | |
| Maximum Operating Rate | No-load | | 10 Hz | | |
| | At le | | 0.5 Hz | | |
| Mechanical Life | In millions of a | operating cycles | 10 | | |
| Rated Impulse Withstand Voltage | Conforming to IEC 60947-1 | | 2.5 kV | | |
| Response Time | Trip | | 10 ms | | |
| Response nine | Reset | | 5 ms | | |
| la construit Destaution | Against short-circuit | | None. The use of a protection device (fuse or supplementary protector) is recommended for each channel or group of channels. | | |
| Incorporated Protection | Against overvoltage and overload | | None. Connect in parallel to the terminals of each preactuator ar RC, MOV (ZNO) suppression, circuit or an appropriately sized diode for the voltage. | | |
| Connection | | Screw terminals Tightened using Ø 3.5 screwdriver (tightening torque: 0.6 N•m / 9.75 lb-in) - Flexible cable with cable end 1 conductor: 0.14-1.5 mm ² , cable: #26 AWG to #16 AWG 2 conductors: 0.14-0.75 mm ² , cable: #26 AWG to #18 AWG - Semi flexible cable 1 conductor: 0.14-2.5 mm ² , cable: #26 AWG to #14 AWG - Solid cable 1 conductor: 0.14-2.5 mm ² , cable: #26 AWG to #14 AWG 2 conductors: 0.14-1.5 mm ² , cable: #26 AWG to #16 AWG6 | | | |

Relay Output Characteristics (Screw Terminal Connections) (1)

Processing Characteristics

| Relay Type | | SR1•1•1BD, SR1•101FU | SR1•201BD, SR1•201FU | | |
|--|--|--|--|--|--|
| Number of Control Scheme Lines | | 60 | 80 | | |
| Maximum Cycle Time | | 6 ms | 8 ms | | |
| Response Time (2) | | 12 to 24 ms (SR1•1•1BD) 20 to 40 ms (SR1•101FU) | 14 to 26 ms (SR1•201BD) 22 to 42 ms (SR1•201FU) | | |
| Back-Up Time (3) Day/time | | ≥ 72 hours at 104 °F (40 °C) only applicable to SR1B••••• | | | |
| Program Memory Checking At each power-up | | At each power-up | | | |

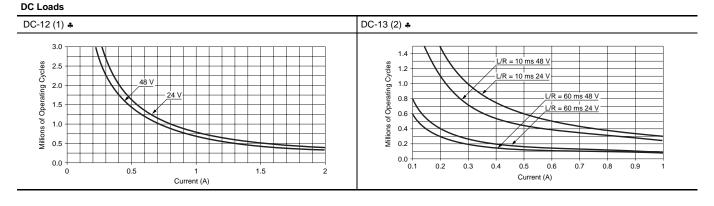
(1) Characteristics at 131 °F (55 °C) for 60% loading of inputs/outputs or at 113 °F (45 °C) for 100% loading of inputs/outputs.

(2) Time between change of state of an input and the change of state of an output directly linked by the program in the same cycle.

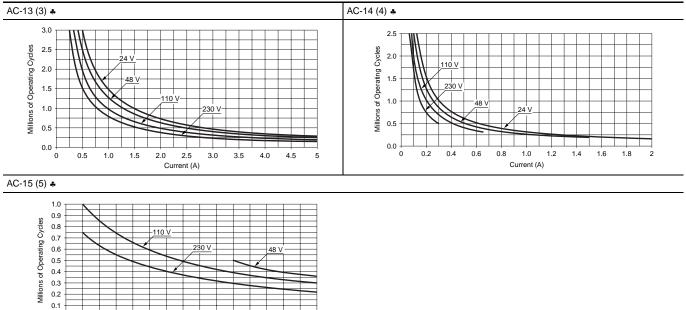
(3) In the event of supply failure.

OPERATING CURVES

Electrical Durability (in millions of operating cycles) (conforming to IEC 60947-5-1) .







(1) DC-12: switching resistive loads and photo-coupler isolated solid state loads, $L/R \le 1$ ms.

1.9

- (2) DC-13: switching electromagnets, L/R ≤ 2 x (Ue x le) in ms, Ue: rated operational voltage, le: rated operational current (with protection diode on load, use the DC-12 curves and apply a coefficient of 0.9 to the million of operating cycles value).
- (3) AC-12: switching resistive loads and photo-coupler isolated solid state loads, cos ≥ 0.9.
- (4) AC-14: switching electromagnetic loads whose power drawn with the electromagnet closed is \leq 72 VA,
- making: cos = 0.3, breaking: cos = 0.3.
 (5) AC-15: switching electromagnetic loads whose power drawn with the electromagnet closed is > 72 VA, making: cos = 0.7, breaking: cos = 0.4.
- The product life expressed above is based on average usage and normal operating conditions. Actual operating life will vary with conditions. The above statements are not intended to, nor shall they create any expressed or implied warranties as to product operation or life. For information on the listed warranty offered on this product, refer to the Square D terms and conditions of sale found in the Square D Digest.

02/01

0.0

0.7

0.9

1.1

1.3

Current (A)

1.5

1.7

Zelio-Logic Relay

Relays



SR1•121BD

SR1•101FU

| Supply Voltage | Inputs | Outputs | Blind Version | With Clock | Catalog Number | Weight Ib (kg) |
|----------------|------------------|--------------|---------------|------------|----------------|--------------------|
| | 6 - 24 Vdc | 4 Relay | No | No | SR1A101BD | 0.64 lb (0.290 kg) |
| | 6 - 24 Vdc | 4 Relay | Yes | No | SR1D101BD | 0.64 lb (0.290 kg) |
| | 8 - 24 Vdc 🔺 | 4 Relay | No | Yes | SR1B121BD | 0.64 lb (0.290 kg) |
| 24 Vdc | 8 - 24 Vdc 🔺 | 4 Relay | Yes | Yes | SR1E121BD | 0.64 lb (0.290 kg) |
| | 8 - 24 Vdc 🔺 | 4 Transistor | No | Yes | SR1B122BD | 0.64 lb (0.290 kg) |
| | 12 - 24 Vdc | 8 Relay | No | No | SR1A201BD | 0.77 lb (0.350 kg) |
| | 12 - 24 Vdc 🔺 | 8 Relay | No | Yes | SR1B201BD | 0.77 lb (0.350 kg) |
| | 6 - 100/240 Vac | 4 Relay | No | No | SR1A101FU | 0.64 lb (0.290 kg) |
| | 6 - 100/240 Vac | 4 Relay | No | Yes | SR1B101FU | 0.64 lb (0.290 kg) |
| 100 - 240 Vac | 6 - 100/240 Vac | 4 Relay | Yes | No | SR1D101FU | 0.64 lb (0.290 kg) |
| 100 - 240 Vac | 6 - 100/240 Vac | 4 Relay | Yes | Yes | SR1E101FU | 0.64 lb (0.290 kg) |
| | 12 - 100/240 Vac | 8 Relay | No | No | SR1A201FU | 0.77 lb (0.350 kg) |
| | 12 - 100/240 Vac | 8 Relay | No | Yes | SR1B201FU | 0.77 lb (0.350 kg) |



| Description | Catalog Number | Weight Ib (kg) |
|---|-------------------|---------------------|
| Relay to PC interconnecting cable - 1.8 m length | SR1CBL01 | 0.77 lb (0.350 kg) |
| EEPROM memory cartridge (1 k bytes) | SR1MEM01 | 0.002 lb (0.001 kg) |
| Zelio-Soft Software | SR1SFT01 | 0.33 lb (0.150 kg) |

Promotional Kits

| Description | Catalog Number | Weight Ib (kg) |
|----------------------------------|-------------------|--------------------|
| CD-ROM, documentation, and cable | SR1KIT01 | 1.1 lb (0,500 kg) |
| SR1B121BD and SR1KIT01 | SR1PACKBD | 1.74 lb (0.790 kg) |
| SR1B101FU and SR1KIT01 | SR1PACKFU | 1.74 lb (0.790 kg) |

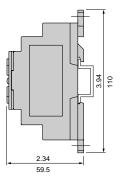
Documentation

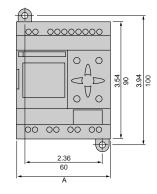
| Description | Language | Catalog Number | Weight Ib (kg) |
|-------------|----------|-------------------|---------------------|
| | English | SR1MAN01EN | 0.0022 lb (0.001kg) |
| | French | SR1MAN01FR | 0.0022 lb (0.001kg) |
| Users guide | German | SR1MAN01DE | 0.0022 lb (0.001kg) |
| | Italian | SR1MAN01IT | 0.0022 lb (0.001kg) |
| | Spanish | SR1MAN01ES | 0.0022 lb (0.001kg) |

▲ 2 configurable analog inputs.



DIMENSIONS





| Catalog Number | Α |
|----------------|-----------------|
| SR1A101BD | |
| SR1B121BD | |
| SR1D101BD | |
| SR1E121BD | |
| SR1A101FU | 2.83 " (72 mm) |
| SR1B101FU | |
| SR1D101FU | |
| SR1E101FU | |
| SR1B122BD | |
| SR1A201BD | |
| SR1B201BD | 4.96 " (126 mm) |
| SR1A201FU | 4.90 (120 mm) |
| SR1B201FU |] |

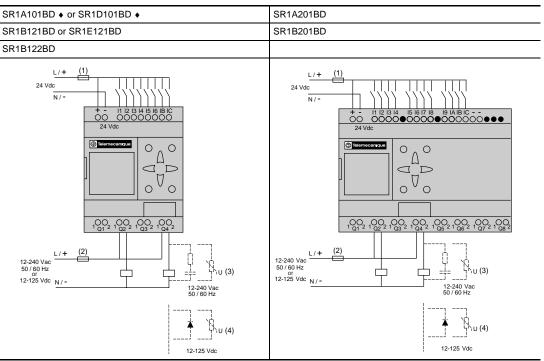
Dual Dimensions inches mm

WIRING DIAGRAMS

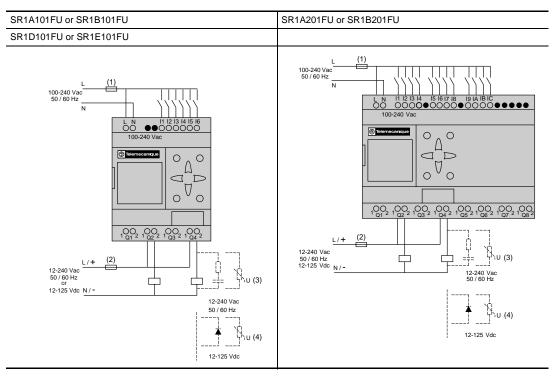
| 3-wire Sensor on: | Analog Inputs on: | Analog Inputs on: |
|---|---|---|
| SR1A101BD | SR1B121BD | SR1B201BD |
| SR1B121BD | SR1E121BD | |
| SR1B122BD | SR1B122BD | |
| SR1D101BD | | |
| SR1E121BD | | |
| SR1A201BD | | |
| SR1B201BD | | |
| + - 11 12 13 14 15 16 1B IC 000000000 24 Vdc BK BK BK BK 0000000000 24 Vdc C D D 0 0 0 C D D 0 0 0 C D D | 0-10 Vdc Analog Ca / Ta 24 Vdc Ca / Ta 2 Ca / Ca / Ta 2 Ca / Ca / Ta 2 Ca / Ca / | 0-10 Vdc Analog Ca / Ta 1 24 Vdc |

(1) 1 A ultra fast fuse or supplementary protector

WIRING DIAGRAMS, CONTINUED



Terminals IB and IC are not available on this device.



(1) 1 A ultra fast fuse or circuit protector.

(2) 16 A maximum fuse or supplementary protector.

(3) Resistive load.

(4) Inductive load.

Square D CompanySchneider8001 Highway 64 East19 WatermKnightdale, NC 27545 USAM4B 1 Y21-888-SquareDToronto, O(1-888-778-2733)1-800-565www.squared.comwww.schn

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