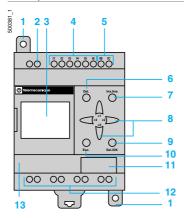
### Presentation

- The "Zelio Logic" Programmable relay is designed for use in small automated systems.
- It is suitable for use in both industrial sectors and commercial premises.
- Its compactness and ease of setting-up provide a competitive alternative to basic cable logic or specific card solutions.
- The ease of programming, ensured by the universality of the contact language, meets all automation requirements and also the needs of the electrician.
- The versions without display or buttons provide not only a competitively priced solution, but also the confidentiality of applications.
- Programming can be performed either locally, using keypad + LCD display, or by using "Zelio Soft" software.

### Description

### SR1-A, SR1-B



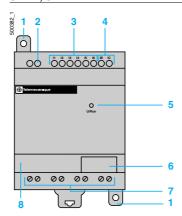
123456789ABC STOP TH 08 29 12345678

- Retractable fixing lugs
- Screw terminal supply connections
- 4 line, 12 character, LCD display
- Screw terminal input connections
- Screw terminal 0 10 V analogue input connections, suitable for discrete == (only applicable to SR1-B)
- Cancellation button
- Line insertion button
- Navigation buttons or Z button after configuration
- Selection and validation button
- 10 Escape button (Esc.)
- 11 Slot for memory back-up and for transfer from one product to another (optional) or for programmable relay/PC connecting cable.
- 12 Screw terminal relay output connections
- 13 Location for re-usable label

### "Zelio Logic" main screen

- Input status indication
- Programmable relay RUN or STOP mode indication
- Indication of a parameter (date and time by default for programmable relays with clock)
- Output status indication

### SR1-D, SR1-E



- Retractable fixing lugs
- Screw terminal supply connections
- Screw terminal input connections
- Screw terminal 0 10 V analogue input connections. suitable for discrete  $\longrightarrow$  (only applicable to SR1-E) U/RUN: operating LED
- Steady: power on, Stop mode Flashing: Run mode
  - Fast flashing: relay fault
- Slot for memory back-up and for transfer from one product to another (optional) or for programmable relay/PC connecting cable

Schneider Electric

- Screw terminal relay output connections
- 8 Location for re-usable label

### Back-up memory

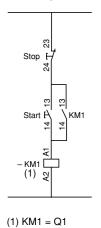
2

- Allows a programme to be copied into another programmable relay (examples: for building identical equipment, remote transmission of updates).
- The memory also allows a back-up copy of the programme to be saved prior to exchanging the product.
- When used with a programmable relay without display or buttons, the copy of the programme contained in the cartridge is automatically transferred into the programmable relay at power-up.

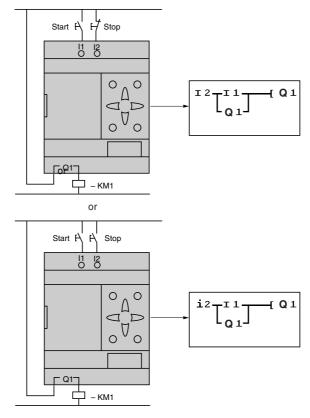
Contact language Function	Electrical	Ladder	Zelio programmable	Notes
	scheme	language	relay symbol	
Contact	N/O 14 13	$\dashv \vdash$	lx <u>lx</u> or	I corresponds to the real state of the contact connected to the input of the programmable relay.
	or N/O 22 21	or	ix <u>ix</u>	i (or I) corresponds to the inverse state of the contact connected to the input of the programmable relay.
	N/C 22 21	$\dashv \land \vdash$	lx <u>IX</u>	programmable relay.
			or ix <u>ix</u>	
Standard coil	A2 A1	<b>-( )-</b>	Qx	The coil is energised when the contacts to which it is connected are closed.
Latch coil (Set)	A2     A1	-(s)-	SQ	The coil is energised when the contacts to which it is connected are closed. It remains tripped when the contacts re-open.
Unlatch coil (Reset)	88     A	—(R)—	RQ	The coil is de-energised when the contacts to which it is connected are closed. It remains inactive when the contacts re-open.

### Example

### Cabled logic



2 alternatives with Zelio programmable relay



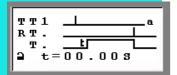
Telemecanique

### **Functions**

### The Zelio Logic programmable relay comprises:

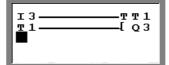
- 8 Time delay function blocks, each with 8 choices of parametering,
- 8 Counter function blocks,
- 8 **Analogue function** blocks, each with 7 choices of comparator parametering,
- 4 Clock function blocks, each comprising 4 channels.

### Time delay function block



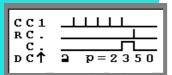
TTe: time delay control input RTe: time delay reset to zero Te: time delay output a: Zelio symbol/type of time delay s: time báse

t 00.00: time delay value ⊇: locking of time delay value



When inputting data to the time delay function block TT1, a window automatically opens for the inputting of the various parameters.

#### Counter function block



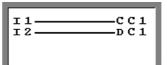
CC●: counting input RCe: counter reset to zero

Co: counter output

DCe: count up/down selection

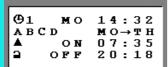
p: preset value

: locking of preset counter value



In the first programming line, each pulse at input I1 increments or decrements the counter C1.
Input I2 determines the counting direction, either up or down.

### Clock function block

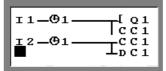


: clock block output ABCD: time zones

MO 14: 32: current date and time MO ->TH: first day/last day

ON: start time OFF: off time

⊇: locking of time zones



The insertion of the clock block will enable output Q1 to change state in accordance with the preset time zones.

### Programming example with 2 time zones

Channel A time zone



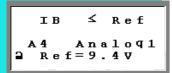
From Monday to Friday, the active time zone will be from 8:00 (ON) until 21:00 (OFF).

### Channel B time zone

<b>9</b> 1	M O	17 3	3 6
ABC	D	SA→ S	3 U
	ON	09:0	0 (
2	OFF	12:0	0 (

For Saturday and Sunday, the active time zone will be from 9:00 (ON) until 12:00 (OFF)

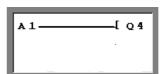
### Analogue function block



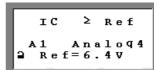
A4: analogue block output Ref: reference voltage

IB ≤ Ref: type of operation available

☐: locking of analogue block reference



The analogue function block controls output Q 4 according to the result of the comparison.



In this example, output Q 4 changes state when the value of the analogue input IC is greater than the 6.4 V reference voltage.

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### Modes

### Parametering mode

T1=05:00M >C1=0051 A1=6.4V This mode centralises all the parameters relating to unlocked function blocks that are used in the programme. Any of these parameters can be modified.

In this example, the user can modify:

- the preset time delay value T1,
- the preset counter value C1,
- the reference voltage of analogue block A1,
- the parameters of clock block n°1 (date, time zones).

### Display mode

PROGRAM. A
PARAMET.
>VISU.
RUN/STOP

This mode enables display of the current values of the various function blocks used in the programme. It is also possible to select one of these values for display on the screen instead of the date and time.

In this example, the user has the option of displaying the current values of:

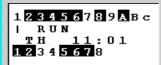
- the time delay T1,
- the analogue input IC,
- the counter C1.

```
TH 10:44 
T1=00:00 M
C1=0000
>Ic=0.0V
```

123456789ABc STOP Ic=0.0V 12345678 The value IC has been selected for being permanently displayed on the main screen instead of the date and time.

### Diagnostic mode

This mode is accessible after the Zelio programmable relay is set to RUN.

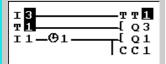


## Programming screen

Main screen

Changing to programming mode allows all the active and inactive elements of the programme to be displayed.

All active elements appear in reversed video.



Characteristics: References: Dimensions: Schemes: pages 6 to 9 pages 10 and 11 page 12 pages 12 and 13

Environmental characteris	tics							
Approvals			UL, CSA,	C-TICK				
Degree of protection			IP 20	O-HOR				
Temperature	Operation Readability of display Storage	°C °C	- 20+ 55 0+ 55 c	onforming		60068-2-1	2-1 and 60068- and 60068-2-2	
Maximum relative humidity		%	95 withou	t condensa	ation or drip	ping wate	r	
Altitude		m	02000					
Mechanical resistance	Immunity to vibrations Immunity to mechanical shock				lard IEC/EN lard IEC/EN		-6, test Fc -27, test Ea	
Resistance to electrostatic discharge	Immunity to electrostatic discharge		Conformi	ng to stand	lard IEC/EN	N 61000-4	-2, level 3 (1)	
Resistance to HF interference	Immunity to electromagnetic radiated fields			•			-3, level 3 (1)	
	Immunity to rapid, pulsed transients Immunity to surges Immunity to damped		Conformi	ng to stand	lard IEC/EN lard IEC/EN lard IEC/EN	l 61000-4		
Connection to screw terminals (Tightened using Ø 3.5 screwdriver)	oscillatory waves  Flexible cable with cable end	mm²	2 conduct	ors: 0.14	1.5, cable: <i>A</i> .0.75, cable	e: AWG26	AWG18	
	Semi-rigid cable Rigid cable	mm² mm²	1 conductor: 0.142.5, cable: AWG26AWG14 1 conductor: 0.142.5, cable: AWG26AWG14 2 conductors: 0.141.5, cable: AWG26AWG16					
Supply characteristics	Tightening torque	N.m	0.6					
Programmable relay type	SR1-		B121JD	●1●1BD	●201BD	B122BD	●101FU	●201FU
Primary	Nominal voltage	V	<u></u> 12	<u></u> 24			∼ 100240	
Voltage limits	Including ripple	V	10.214.4	19.230			∼ 85264	
Nominal frequency		Hz	_	_			50-60 (476	3)
Nominal input current		mA	105	83	130	45		\[   \sum 100  \mathbf{V} \leq 80 \\   \sum 240  \mathbf{V} \leq 40   \]
Heat dissipation		w	1.3	1.6	2.9	1.1	3	5.3
Micro-breaks	Acceptable duration		≤ 1 ms, re	peated 20	times		≤ 10 ms, repe	eated 20 times
Isolation voltage	Primary/earth	Vrms	_				2000 (50-60	Hz)
Processing characteristics			Against p	olarity inve	rsion		-	
Programmable relay type	SR1-		B121JD,	●1●●BD, S	R1-●101Fl	J <b>●</b> 201	BD, SR1- <b>●</b> 201	FU
Number of control scheme lines			60			80		
Maximum cycle time		ms	6			8		
Response time (2)		ms	●1●●BD) `	SR1-B121. SR1-●101I			26 ( <b>SR1-•201</b> 42 ( <b>SR1-•201</b>	,
Back-up time in case of power failure	Day/time	Н		cable to SI	R1-B and S	SR1-E		
Programme memory checking	Programme and adjustments  defined by the standards		For life, in At each p	ternal EEF ower-up	YHOM			

(1) Minimum level under test conditions defined by the standards

Presentation: References: Dimensions: Schemes: pages 2 to 5 pages 10 and 11 pages 12 pages 12 and 13

<sup>(2)</sup> Time between change of state of an input and change of state of an output directly linked by the programme in the same cycle.

Tropurt   Trop	\				004	004 :-	004	004
Comment   Voltage	rogrammable relay type	Input			SR1-eeeeBD I1 to IA	SR1-eeeeJD	SR1-eeeBD IB and IC	SR1-eeeJD
Voltage	Connection	1						ls
Current								
Current   MA   1.8   1.6   0.16   0	lominal value of inputs							
Current   MA   1.8   1.6   0.16   0	nnut State 1	Voltage		v	> 15	> 6.5	> 9 9	> 9 9
Current	•							
State 0 to 1   State 0 to 1   State 1   State 0 to 1   State 1 to 0   State 1 t	mit values State 0							
State 0 to 1   State 1 to 0   Stat		Current						
State 1 to 0   Mes   0.5 (fast)5 (slow)   5 (not configurable)	nput impedance at state 1			kΩ	8	4		
Ves. type 1	Configurable response time							
3-wire   Yes   No   No   No		Otate 1 to 0		1110	0.0 (1031)0 (31	<i>5</i> <b>11</b> <i>1 1 1 1 1 1 1 1 1 1</i>	5 (not conligate	abicj
Service   No   No   No   No   No   No   No   N	onformity to IEC/EN 61131-2							
Procession   Pr	ensor compatibility							
Between supply and inputs   None	•						1	
Between inputs	ype or input				Hesistive			
AC ( ~ 100240 V) input characteristics    Programmable relay type   SR1-●01FU	solation		uts					
SR1-e+01FU   Screw terminals   Screw terminals					None			
Screw terminals   Screw term	AC ( $\sim$ 100240 V) input	characteristics						
Voltage   V	rogrammable relay type				SR1-●●01FU			
Voltage   V	Connection							
Current   115 V   mA   0.65   240 V   mA   1.3	lominal value of inputs	Voltage						
Prequency	ioniniai valuo oi inputo							
Frequency								
At state 1  Voltage V ≥ 79 Current mA ≥ 0.4 (U = 240 V)  At state 0  Voltage Current mA < 0.3  Response time  State 0 to 1 50/60 Hz ms 4550 (U = 110 V), 8590 (U = 240 V)  State 1 to 0 50/60 Hz ms 4550 (U = 110 V), 1822 (U = 240 V)  Solation  Between supply and inputs None  Between inputs None  Integral analogue input characteristics  Programmable relay type  SR1-BeeeBD SR1-B121JD  SR1-B		Fraguancy	-					
Current   mA   ≥ 0.4 (U = 240 V)								
At state 0   Voltage   V   < 40	nput switching limit values	At state 1				/)		
State 0 to 1   50/60 Hz   ms   4550 (U = 110 V), 8590 (U = 240 V)						· /		
State 0 to 1   50/60 Hz   ms   4550 (U = 110 V), 8590 (U = 240 V)		At state 0						
State 1 to 0   50/60 Hz   ms   4550 (U = 110 V), 1822 (U = 240 V)				ША				
Between supply and inputs   None	Response time							
Between inputs   None				IIIS	4550 (0 = 11)	0 V), 1022 (U =	: 240 V)	
SR1-BeeeBD   SR1-B121JD	solation		uts					
SR1-BeeeeBD   SR1-B121JD					None			
Number of channels   2   Voltage range of input   V   010     Input impedance   kΩ   62.5 to 10 V     Maximum non destructive voltage   V   ± 30   ± 15     Conversion   Resolution   8 bits     Conversion time   Relay cycle time     Precision   at 25 °C   ± 1.6 % of the full range     at 60 °C   ± 2.9 % of the full range     Repeat accuracy   at 55 °C   < 0.1 % of the full range     Repeat accuracy   September   V   None     None   September   V   None     None   None   None     Number of channels   2   V   None     None   Number of channels   2   V   None     None   Number of channels   2     Voltage range of input   V   V     Voltage range of input   V     Voltage range ran	Integral analogue input cha	aracteristics						
Number of channels   2   Voltage range of input   V   010     Input impedance   KΩ   62.5 to 10 V     Maximum non destructive voltage   V   ± 30   ± 15     Conversion   Resolution   8 bits     Conversion time   Relay cycle time     Precision   at 25 °C   ± 1.6 % of the full range     at 60 °C   ± 2.9 % of the full range     Repeat accuracy   at 55 °C   < 0.1 % of the full range     Repeat accuracy   September   V   None     None   September   V   None     None   September   Number of channels     V	rogrammable relay type				SR1-BeeeeBD		SR1-B121JD	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Niversian						
Input impedance   KΩ   62.5 to 10 V	Anaiogue inputs			V				
Maximum non destructive voltage   V		Input impedance						
Conversion time  Precision  at 25 °C  at 60 °C  Expect accuracy  Repeat accuracy  Between analogue channel & supply  Repeat accuracy  Between analogue channel & supply  Repeat accuracy  Between analogue channel & supply  None		Maximum non destructive	e voltage	٧			± 15	
Conversion time  Precision  at 25 °C  at 60 °C  Expect accuracy  Repeat accuracy  Between analogue channel & supply  Repeat accuracy  Between analogue channel & supply  Repeat accuracy  Between analogue channel & supply  None	Conversion	Resolution			8 hits			
Repeat accuracy at 55 °C						Э		
Repeat accuracy at 55 °C		Precision	at 25 °C		+ 1 6 % of the f	ıll rango		
Repeat accuracy at 55 °C < 0.1 % of the full range  Between analogue channel & supply V None		1 1609011						
Between analogue channel & supply V None		Repeat accuracy						
				٧		<del>-</del> - <u></u>		
	solation	Detween analoude chain						

Schneider Electric Telemecanique

Relay output characteris	Stics (screw terminal connections) (1)			
Programmable relay type			SR1-B121JD, SR1-●1●1BD, SR1-●101FU	SR1-e201BD, SR1-e201FU
Number of outputs	Without common potential		4	8
Operating limit values		v	<u></u> 5150, ∼ 24250	
Contact type			N/O	
Thermal current		Α	8	
Electrical durability or 500,000 operating cycles	Utilisation category DC —	-12 <b>V</b>	24 1.5	
	DC	-13 <b>V</b>	24 V L/R = 10 ms 0.6	
	AC	-12 <b>V</b>	230 1.5	
	AC	-15 <b>V</b>	230	
		Α	0.9	
Minimum switching capacity	At 5 V minimum voltage	mA	10	
Lower power switching reliability of contact			17 V - 5 mA Failure rate for 100 million oper	rating cycles: 1
Maximum operating rate	No-load	Hz	10	
	At le	Hz	0.5	
Mechanical life	In millions of operating cycles		10	
Rated impulse withstand oltage	Conforming to IEC/EN 60947-1	kV	2.5	
Response time	Trip	ms	10	
	Reset	ms	5	
Built-in protection	Against short-circuit		recommended for each channe	device (fuse or circuit-breaker) is el or group of channels
	Against overvoltage and overloa	d		e terminals of each preactuator an ssor or an appropriately sized dioc
Transistor output charac	cteristics (screw terminal connection	ns)		
Programmable relay type			SR1-B122BD	
Number of outputs	With positive polarity common potential		4 (PNP)	
Operating limit values		V	19.230	
_oads	Nominal voltage	v	<del></del> 24	
	Nominal current	Α	0.5	
	Maximum current	A	0.625 at 30 V	
Orop out voltage	At state 1	v	≤ 2 for I = 0.5 A	
Response time	Trip	ms	≤ 1	
	Reset	ms	≤1	
Built-in protection			Against overload and short-circ Against overvoltage (2) Against inversions of power su	

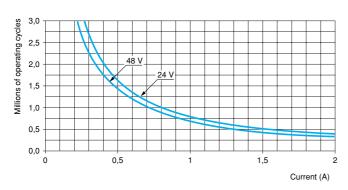
<sup>(1)</sup> Characteristics at 55 °C for 60 % loading of inputs/outputs or at 45 °C for 100 % loading of inputs/outputs. (2) If there is no volt-free contact between the relay output and the load.

Presentation: pages 2 to 5 References: pages 10 and 11 Dimensions: page 12 Schemes: pages 12 and 13

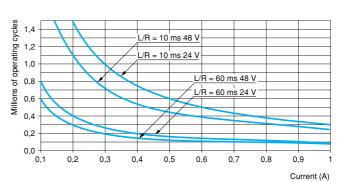
### Electrical durability of relay outputs (in millions of operating cycles) (conforming to IEC/EN 60947-5-1)

### d.c. loads

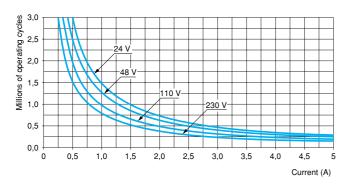
DC-12 (1)



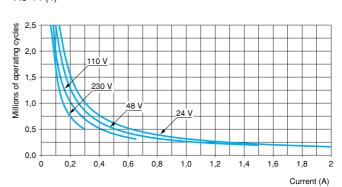
### DC-13 (2)



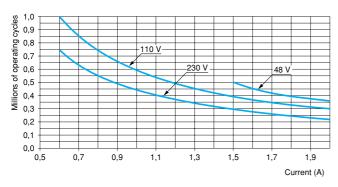
### a.c. loads AC-12 (3)



### AC-14 (4)



### AC-15 (5)



- (1) DC-12: switching resistive loads and photo-coupler isolated solid state loads,  $L/R \le 1$  ms.
- (2) DC-13: switching electromagnets,  $L/R \le 2 \times (Ue \times Ie)$  in ms, Ue: rated operational voltage, Ie: rated operational current (with protection diode on load, use the DC-12 curves and apply a coefficient of 0.9 to the millions 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 ≤ 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.



SR1-B121BD



SR1-A201BD



SR1-E121BD



SR1PACK ••

Progran	nmable relays				
Number of I/O	Discrete inputs	Outputs	Clock	Reference	Weight kg
Supply <u> </u>	2 V				
12	8 I <u></u> 12 V (1)	4 O relay	Yes	SR1-B121JD	0.290
Supply == 2	4 V				
10	6 I <u></u> 24 V	4 O relay	No	SR1-A101BD	0.290
12	8 I <u></u> 24 V (1)	4 O relay	Yes	SR1-B121BD	0.290
-		4 O transistor	Yes	SR1-B122BD	0.290
20	12 I <u></u> 24 V	8 O relay	No	SR1-A201BD	0.350
-	12 I <u></u> 24 V (1)	8 O relay	Yes	SR1-B201BD	0.350
Supply $\sim$ 1	00/240 V				
10	6 I $\sim$ 100/240 V	4 O relay	No	SR1-A101FU	0.290
			Yes	SR1-B101FU	0.290
20	12 I $\sim$ 100/240 V	8 O relay	No	SR1-A201FU	0.350
			Yes	SR1-B201FU	0.350

Programmable rela	vs without display	and without buttons
i rogrammable rela	yo wiliibul diopiaj	and without buttons

Supply == 2	4 V				
10	6 I <u></u> 24 V	4 O relay	No	SR1-D101BD	0.270
12	8 I <u></u> 24 V (1)	4 O relay	Yes	SR1-E121BD	0.270
Supply $\sim$ 1	00/240 V				
10	6 I $\sim$ 100/240 V	4 O relay	No	SR1-D101FU	0.270
			Yes	SR1-E101FU	0.270
Kits					
Description				Reference	Weight kg
d.c. Zelio SF	R1B121BD + cable and s	software		SR1PACKBD	0.548
	R1B101FU + cable and s			SR1PACKFU	0.548
	e accessory	onware		SITI ACICI C	0.540
Description	o accessory			Reference	
Description					Waight
				nelerence	Weight kg
EEPROM m	emory			SR1-MEM01	kg
EEPROM m					
			Language		kg
Description User's guide	entation		Language English	SR1-MEM01	0.001 Weight
Docume Description	entation			SR1-MEM01 Reference	0.001 Weight
Description  User's guide for direct pro	entation		English	SR1-MEM01  Reference  SR1-MAN01EN	0.001  Weight kg
Description  User's guide for direct pro	entation		English French	SR1-MEM01  Reference  SR1-MAN01EN  SR1-MAN01FR	0.001  Weight kg  0.100

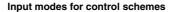
II III

## "Zelio Logic" programmable relays

### "Zelio Soft" software



- inputting of control schemes,
- monitoring of applications, using its coherence test feature,
- inputting of messages for display on the "Zelio Logic" Programmable relay,
- programme testing.



"Zelio input" mode enables users who have directly programmed the Zelio programable relay to find the same user interface, even when using the software for the first time.

"Free input" mode, which is more intuitive, is very user-friendly and incorporates many additional features. Using Zelio Soft in "free mode" enables users to select their preferred symbol language from the following 3 alternatives:

- Zelio symbols,
- Ladder symbols,
- electrical symbols.
- "Free input" mode also enables the creation of mnemonics and notes associated with each line of the programme. Instant switching from one input mode to the other is simply achieved, at any time, by clicking the mouse.

### Coherence test and application languages

Zelio Soft monitors applications via its coherence test function and turns red at the slightest input error. The problem can be located by simply clicking the mouse.

Zelio Soft allows switching between the 6 application languages (English, French, German, Italian, Portuguese and Spanish) at any time, and editing of the application file in the selected language. It allows selection of the representation mode (Zelio, Ladder or electrical) for editing the file.

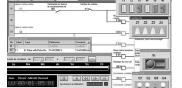
### Inputting messages for display on Zelio Logic

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 programmable relays with LCD display. These screens are activated in the same simple way 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 values of function blocks used in the programme.

### Programme testing

The Zelio Soft simulator makes it possible to test all the programmes, i.e.:

- activate discrete inputs and their contact modes (N/O or N/C, fleeting or continuous),
- display the output states,
- vary the voltage of the analogue inputs IB and IC,
- activate the buttons,
- simulate the application programme in real time or accelerated time,
- dynamically display, in red, the various active elements of the programme.



### References

Description	Reference	Weight kg
Programmable relay-PC connecting cable length 1.8 m	SR1-CBL01	0.350
Kit comprising: - "Zelio soft" autonomous programming software - cable.	SR1-KIT01	0.500
"Zelio Soft" multilingual programming software (1)	SR1-SFT01	0.150

### (1) EN/FR/DE/ES/IT/PO - contains the on-line user's guide for the PC

	SR1-	Α	В	B122BD	B121JD	D	E	
Zelio Soft	Version 1.2	Yes	Yes	No	No	No	No	
	Version 1.3	Yes	Yes	Yes	No	No	No	
	Version 1.4	Yes	Yes	Yes	No	Yes	Yes	
	≥ Version 1.5	Yes	Yes	Yes	Yes	Yes	Yes	

resentation: Characteristics: ages 2 to 5 pages 6 to 9

Dimensions:

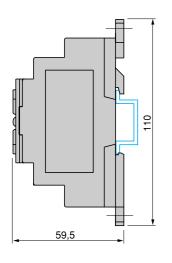
Schemes:

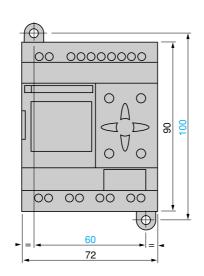
### **Dimensions**

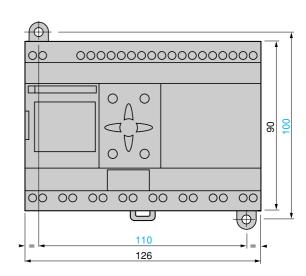
Programmable relays SR1-



SR1-e2eeee





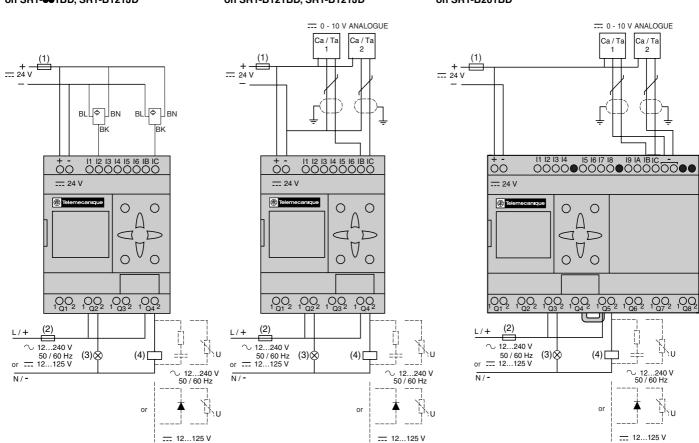


### **Schemes**

3-wire sensors on SR1-ee1BD, SR1-B121JD

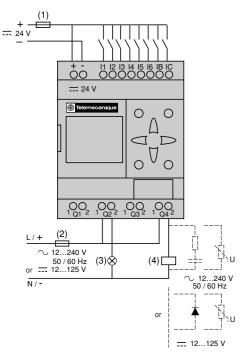
Analogue inputs on SR1-B121JD

on SR1-B201BD

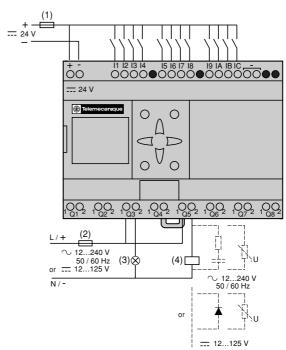


- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) 16 A fuse or circuit-breaker (B16).
- (3) Resistive load.
- (4) Inductive load.

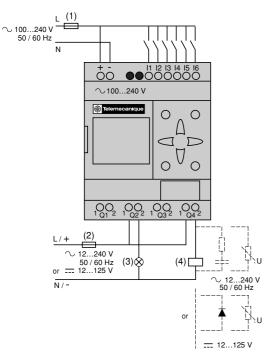
### SR1-e1e1BD, B121JD, B122BD



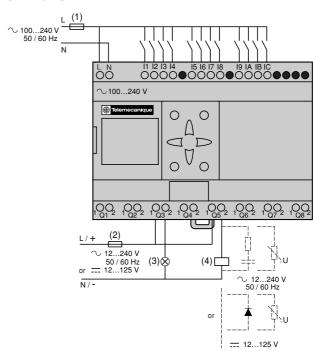
### SR1-●201BD



### SR1-●101FU



### SR1-●201FU



- (1) 1 A quick-blow fuse or circuit-breaker (2) 16 A fuse or circuit-breaker (B16). (3) Resistive load.

- (4) Inductive load.

Characteristics: pages 6 to 9 Dimensions: page 12 Presentation: pages 2 to 5 References: pages 10 and 11