

compact smart relay Zelio Logic - 12 I O - 100..240 V AC - clock - no display

Local distributor code: 389537760 SR2E121FU

Main

Zelio Logic
Compact smart relay

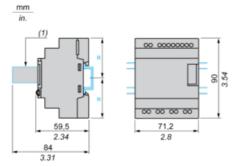
Complementary	
Local display	Without
Number or control scheme lines	0240 with ladder programming 0500 with FBD programming
Cycle time	690 ms
Backup time	10 years at 25 °C
Clock drift	12 min/year at 055 °C 6 s/month at 25 °C
Checks	Program memory on each power up
[Us] rated supply voltage	100240 V AC
Supply voltage limits	85264 V
Supply frequency	50/60 Hz
Maximum supply current	30 mA at 240 V (without extension) 80 mA at 100 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 number	8
Discrete input voltage	100240 V AC
Discrete input current	0.6 mA
Discrete input frequency	5763 Hz 4753 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 (discrete input)
Current state 0 guaranteed	<= 0.5 mA (discrete input)
Analogue input number	0
Input impedance	350 kOhm for discrete input

Number of outputs	4 relay
Output voltage limits	530 V DC (relay output) 24250 V AC
Contacts type and composition	NO for relay output
Output thermal current	8 A for all 4 outputs for relay output
Electrical durability	AC-12: 500000 cycles at 230 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 AC-15: 500000 cycles at 230 V, 0.9 A for relay output conforming to EN/IEC 60947-5-1 DC-12: 500000 cycles at 24 V, 1.5 A for relay output conforming to EN/IEC 60947-5-1 DC-13: 500000 cycles at 24 V, 0.6 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	0.1 Hz (at le) for relay output 10 Hz (no load) for relay output
Mechanical durability	10000000 cycles for relay output
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1
Clock	With
Response time Connections - terminals	50 ms with ladder programming (from state 0 to state 1) for discrete input 50 ms with ladder programming (from state 1 to state 0) for discrete input 50255 ms with FBD programming (from state 0 to state 1) for discrete input 50255 ms with FBD programming (from state 1 to state 0) for discrete input 10 ms (from state 0 to state 1) for relay output 5 ms (from state 1 to state 0) for relay output Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 25AWG 14) semi-solid Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 25AWG 14) solid
-	Screw terminals, 1 x 0.251 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) solid Screw terminals, 2 x 0.252 x 0.75 mm² (AWG 24AWG 18) flexible with cable end
Tightening torque	0.5 N.m
Overvoltage category	III conforming to EN/IEC 60664-1
Net weight	0.22 kg
Environment	
Environment Immunity to microbreaks	10 ms
	10 ms GOST C-Tick UL CSA GL
Immunity to microbreaks	GOST C-Tick UL CSA
Immunity to microbreaks Product certifications	GOST C-Tick UL CSA GL EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-5 EN/IEC 60068-2-27 Ea
Immunity to microbreaks Product certifications Standards	GOST C-Tick UL CSA GL EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-6 level 3 EN/IEC 60000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-3
Immunity to microbreaks Product certifications Standards IP degree of protection	GOST C-Tick UL CSA GL EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-3 IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-4
Immunity to microbreaks Product certifications Standards IP degree of protection Environmental characteristic Disturbance radiated/	GOST C-Tick UIL CSA GL EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-3 IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61131-2 zone B Low voltage directive conforming to EN/IEC 61131-2
Immunity to microbreaks Product certifications Standards IP degree of protection Environmental characteristic Disturbance radiated/ conducted	GOST C-Tick UL CSA GL EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-5 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-3 IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to IEC 60529 EMC directive conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61131-2 zone B Low voltage directive conforming to EN/IEC 61131-2 Class B conforming to EN 55022-11 group 1
Immunity to microbreaks Product certifications Standards IP degree of protection Environmental characteristic Disturbance radiated/ conducted Pollution degree Ambient air temperature for	GOST C-Tick UL CSA GL EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-5 EN/IEC 61000-4-3 IP20 (terminal block) conforming to IEC 60529 IP40 (front panel) conforming to EC 60529 EMC directive conforming to EN/IEC 61000-6-2 EMC directive conforming to EN/IEC 61000-6-3 EMC directive conforming to EN/IEC 61000-6-4 EMC directive conforming to EN/IEC 61131-2 zone B Low voltage directive conforming to EN/IEC 61131-2 Class B conforming to EN/IEC 61131-2 -2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2

Maximum altitude transport	3048 m
Relative humidity	95 % without condensation or dripping water
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	212.0 g
Package 1 Height	6.5 cm
Package 1 width	10 cm
Package 1 Length	8.8 cm
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	6.842 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
on caractery i rome	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
WEEE	never end up in rubbish bins

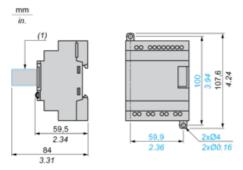
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



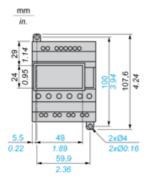
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

Position of Display

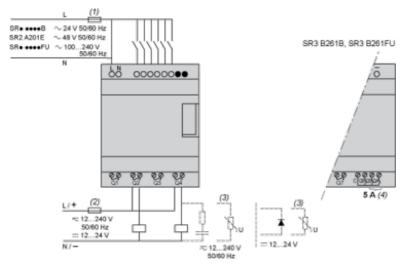


SR2E121FU

Connections and Schema

Connection of Smart Relays on AC Supply

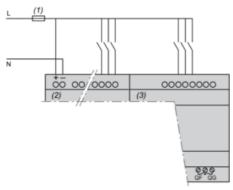
SR••••1B, SR••••1FU



- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) Fuse or circuit-breaker.
- (3) Inductive load.
- (4) Q9 and QA: 5 A (max. current in terminal C: 10 A).

With Discrete I/O Extension Module

SR3B•••B + SR3XT•••B, SR3B•••FU + SR3XT•••FU



(1) 1 A quick-blow fuse or circuit-breaker.

NOTE: QF and QG: 5 A for SR3XT141••

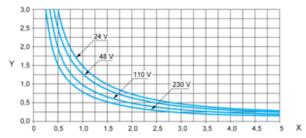
Performance Curves

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

(in millions of operating cycles, conforming to IEC/EN 60947-5-1)

AC-12 (1)

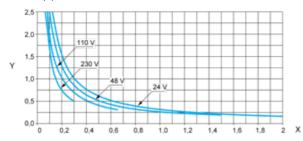


X: Current (A)

Y: Millions of operating cycles

(1) AC-12: switching resistive loads and opto-coupler isolated solid-state loads, $\cos \ge 0.9$.

AC-14 (1)

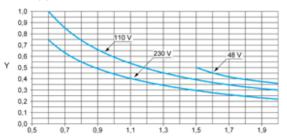


X: Current (A)

Y: Millions of operating cycles

(1) AC-14: switching small electromagnetic loads ≤ 72 VA, make: cos = 0.3, break: cos = 0.3.

AC-15 (1)



X: Current (A)

Y: Millions of operating cycles

(1) AC-15: switching electromagnetic loads ≥ 72 VA, make: cos = 0.7, break: cos = 0.4.