



modular smart relay Zelio Logic - 26 I O - 24 V DC - clock - display

Local distributor code: 389838391 SR3B262BD

EAN Code: 3389110549997

Main

Range of product	Zelio Logic
Product or component type	Modular smart relay

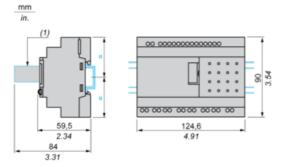
Local display	With	
Number or control scheme lines	0500 with FBD programming 0240 with ladder programming	
Cycle time	690 ms	
Backup time	10 years at 25 °C	
Clock drift	12 min/year at 055 °C 6 s/month at 25 °C	
Checks	Program memory on each power up	
[Us] rated supply voltage	24 V	
Supply voltage limits	19.230 V	
Maximum supply current	180 mA (with extensions) 70 mA (without extension)	
Power dissipation in W	10 W with extensions 5 W without extension	
Reverse polarity protection	With	
Discrete input number	16 conforming to EN/IEC 61131-2 type 1	
Discrete input type	Resistive	
Discrete input voltage	24 V DC	
Discrete input current	4 mA	
Counting frequency	1 kHz for discrete input	
Voltage state 1 guaranteed	>= 15 V for I1IA and IHIR discrete input circuit >= 15 V for IBIG used as discrete input circuit	
Voltage state 0 guaranteed	<= 5 V for I1IA and IHIR discrete input circuit <= 5 V for IBIG used as discrete input circuit	
Current state 1 guaranteed	>= 1.2 mA (IBIG used as discrete input circuit) >= 2.2 mA (I1IA and IHIR discrete input circuit)	
Current state 0 guaranteed	<= 0.5 mA (IBIG used as discrete input circuit) <= 0.75 mA (I1IA and IHIR discrete input circuit)	
Input compatibility	3-wire proximity sensors PNP for discrete input	
Analogue input number	6	

Analogue input type	Common mode	
Analogue input range	024 V	
	010 V	
Temperature probe type	NTC 10k at 25 °C NTC 1000k at 25 °C KTY81 210/220/221/222/250 Pt 500	
Maximum permissible voltage	30 V for analogue input circuit	
Analogue input resolution	8 bits	
LSB value	39 mV for analogue input circuit	
Conversion time	Smart relay cycle time for analogue input circuit	
Conversion error	+/- 5 % at 25 °C for analogue input circuit +/- 6.2 % at 55 °C for analogue input circuit	
Repeat accuracy	+/- 2 % at 55 °C for analogue input circuit	
Operating distance	10 m between stations, with screened cable (sensor not isolated) for analogue input circuit	
Input impedance	12 kOhm for IBIG used as analogue input circuit 12 kOhm for IBIG used as discrete input circuit 7.4 kOhm for I1IA and IHIR discrete input circuit	
Number of outputs	10 transistor	
Output voltage	24 V transistor output	
Output voltage limits	19.230 V DC (transistor output)	
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1	
Load current	0.50.625 A transistor output	
[Ures] residual voltage	2 V at state 1 transistor output	
Overload protection	With overload protection for transistor output	
Short-circuit protection	With transistor output	
Overvoltage protection	With overvoltage protection for transistor output	
Clock	With	
Response time	<= 1 ms (from state 0 to state 1) for transistor output <= 1 ms (from state 1 to state 0) for transistor output	
Connections - terminals	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	0.3 kg	
Environment		
Immunity to microbreaks	1 ms	
Product certifications	C-Tick GOST UL CSA GL	
Standards	EN/IEC 60068-2-27 Ea EN/IEC 61000-4-5 EN/IEC 61000-4-11 EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-12 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-3 EN/IEC 60068-2-6 Fc	
IP degree of protection	IP20 (terminal block) conforming to IEC 60529	

	IP40 (front panel) conforming to IEC 60529	
Environmental characteristic	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	
Disturbance radiated/ conducted	Class B conforming to EN 55022-11 group 1	
Pollution degree	2 conforming to EN/IEC 61131-2	
Ambient air temperature for operation	-2040 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -2055 °C conforming to IEC 60068-2-1 and IEC 60068-2-2	
Ambient air temperature for storage	-4070 °C	
Operating altitude	2000 m	
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 Height	6.8 cm	
Package 1 Width	10.0 cm	
Package 1 Length	13.5 cm	
Package 1 Weight	298.0 g	
Unit Type of Package 2	S03	
Number of Units in Package 2	20	
Package 2 Height	30.0 cm	
Package 2 Width	30.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	6.586 kg	
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	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
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	
PVC free	Yes	
Contractual warranty		
Warranty	18 months	

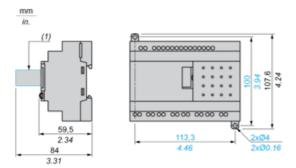
Compact and Modular Smart Relays

Mounting on 35 mm/1.38 in. DIN Rail



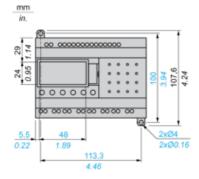
(1) With SR2USB01 or SR2BTC01

Screw Fixing (Retractable Lugs)



(1) With SR2USB01 or SR2BTC01

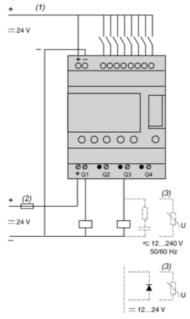
Position of Display



Connections and Schema

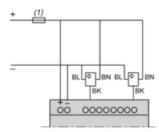
Compact and Modular Smart Relays

Connection of Smart Relays on DC Supply



- (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).

Discrete Input Used for 3-Wire Sensors



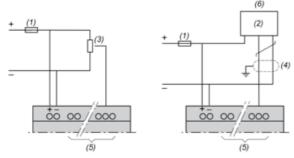
(1) 1 A quick-blow fuse or circuit-breaker.

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Connections and Schema

Connection of Smart Relays on DC Supply

Analog Inputs



- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) Ca: Analog sensor / Ta: Analog transmitter.
- (3) Recommended values: 2.2 k Ω / 0.5 W (10 k Ω max.)
- (4) Screened cables, maximum length 10 m / 32.80 feet.
- (5) Analog inputs according to Zelio Logic smart relay type (see table below)
- (6) 0-10 Vdc ANALOG

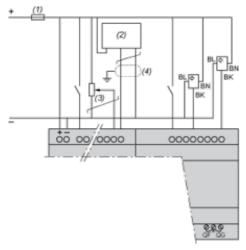
Smart Relays	Analog Inputs
SR2•12••D	IBIE
SR2A201BD	IB and IC
SR2D201BD	IB and IC
SR2B20••D	IBIG
SR2E201BD	IBIG
SR3B10•BD	IBIE
SR3B26••D	IBIG

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Connections and Schema

Connection of Smart Relays on DC Supply, with Discrete I/O Extension Modules

SR3B•••JD + SR3XT•••JD, SR3B•••BD + SR3XT•••BD



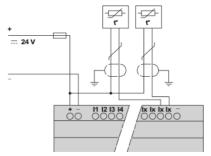
- (1) 1 A quick-blow fuse or circuit-breaker.
- (2) Ca: Analog sensor / Ta: Analog transmitter.
- (3) Recommended values: 2.2 k Ω / 0.5 W (10 k Ω max.)
- (4) Screened cables, maximum length 10 m / 32.80 feet.

NOTE: QF and QG: 5 A for SR3XT141.

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Connections and Schema

Connection of Thermistor Input on DC Supply



NOTE: Ix = IB...IG

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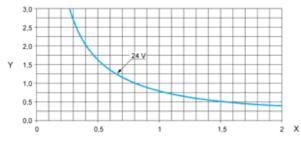
Performance Curves

Compact and Modular Smart Relays

Electrical Durability of Relay Outputs

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

DC-12 (1)

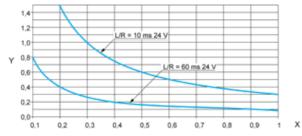


X: Current (A)

Y: Millions of operating cycles

(1) DC-12: control of resistive loads and of solid state loads isolated by opto-coupler, $L/R \le 1$ ms.

DC-13 (1)



X: Current (A)

Y: Millions of operating cycles

(1) DC-13: switching electromagnets, $L/R \le 2 \times (Ue \times Ie)$ in ms, Ue: rated operational voltage, Ie: rated operational current (with a protection diode on the load, DC-12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles).

Recommended replacement(s)