

Main

Range of product	Zelio Logic
Product or component type	Modular smart relay
[Us] rated supply voltage	24 V AC
Discrete input number	16
Number of outputs	10 relay

Complementary

Local display	With
Supply current	280 mA without extension 415 mA with extensions
Discrete input current	4.4 mA
Number or control scheme lines	120 ladder ≤ 200 FBD
Cycle time	6...90 ms
Backup time	10 years 25 °C
Clock drift	6 s/month 25 °C 12 min/year 0...55 °C
Checks	Program memory on each power up
Supply voltage limits	20.4...28.8 V
Supply frequency	50/60 Hz
Power consumption in VA	7.5 VA without extension 10 VA with extensions
Isolation voltage	1780 V
Protection type	Against inversion of terminals (control instructions not executed)
Discrete input voltage	24 V AC
Discrete input frequency	47...53 Hz 57...63 Hz
Voltage state 1 guaranteed	≥ 14 V discrete input
Voltage state 0 guaranteed	≤ 5 V discrete input
Current state 1 guaranteed	> 2 mA discrete input
Current state 0 guaranteed	< 0.5 mA discrete input
Input impedance	4.6 kOhm discrete input
Output voltage limits	5...30 V DC relay output 24...250 V AC
Contacts type and composition	NO relay output
Output thermal current	5 A for 2 outputs relay output 8 A for 8 outputs relay output
Electrical durability	500000 cycles DC-12 24 V 1.5 A relay output EN/IEC 60947-5-1 500000 cycles DC-13 24 V 0.6 A relay output EN/IEC 60947-5-1 500000 cycles AC-12 230 V 1.5 A relay output EN/IEC 60947-5-1 500000 cycles AC-15 230 V 0.9 A relay output EN/IEC 60947-5-1
Switching capacity in mA	≥ 10 mA 12 V relay output
Operating rate in Hz	0.1 Hz at Ie relay output 10 Hz no load relay output
Mechanical durability	10000000 cycles relay output

[Uimp] rated impulse withstand voltage	4 kV EN/IEC 60947-1 and EN/IEC 60664-1
Clock	With
Response time	5 ms from state 1 to state 0 relay output 10 ms from state 0 to state 1 relay output 50...255 ms FBD from state 0 to state 1 discrete input 50...255 ms FBD from state 1 to state 0 discrete input 50 ms ladder from state 0 to state 1 discrete input 50 ms ladder from state 1 to state 0 discrete input
Connections - terminals	Screw terminals 1 x 0.25...1 x 2.5 mm ² 24...14 flexible with cable end Screw terminals 2 x 0.25...2 x 0.75 mm ² 24...18 flexible with cable end Screw terminals 1 x 0.2...1 x 2.5 mm ² 25...14 semi-solid Screw terminals 1 x 0.2...1 x 2.5 mm ² 25...14 solid Screw terminals 2 x 0.2...2 x 1.5 mm ² 24...16 solid
Tightening torque	0.5 N.m
Overvoltage category	III EN/IEC 60664-1
Product weight	0.4 kg

Environment

Immunity to microbreaks	≤ 10 ms repeated 20 times
Product certifications	C-Tick CSA GL GOST UL
Standards	EN/IEC 60068-2-27 Ea EN/IEC 60068-2-6 Fc EN/IEC 61000-4-11 EN/IEC 61000-4-12 EN/IEC 61000-4-2 level 3 EN/IEC 61000-4-3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-6 level 3
IP degree of protection	IP20 terminal block IEC 60529 IP40 front panel IEC 60529
Environmental characteristic	EMC directive EN/IEC 61131-2 zone B EMC directive EN/IEC 61000-6-2 EMC directive EN/IEC 61000-6-3 EMC directive EN/IEC 61000-6-4 Low voltage directive EN/IEC 61131-2
Disturbance radiated/conducted	Class B EN 55022-11 group 1
Pollution degree	2 EN/IEC 61131-2
Ambient air temperature for operation	-20...40 °C in non-ventilated enclosure IEC 60068-2-1 and IEC 60068-2-2 -20...55 °C IEC 60068-2-1 and IEC 60068-2-2
Ambient air temperature for storage	-40...70 °C
Operating altitude	2000 m
Altitude transport	≤ 3048 m
Relative humidity	95 % without condensation or dripping water
RoHS EUR conformity date	0622
RoHS EUR status	Compliant

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