



### Main

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

### Complementary

Local display	With
Number of control scheme lines	0...240 with ladder programming 0...500 with FBD programming
Cycle time	6...90 Ms
Backup time	10 years at 25 °C
Clock drift	12 min/year at 0...55 °C 6 s/month at 25 °C
Checks	Program memory on each power up
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2...30 V
Maximum supply current	100 MA (without extension)
Power dissipation in W	3 W without extension
Reverse polarity protection	With
Discrete input number	8 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 I1...IA and IH...IR discrete input circuit >= 15 V for IB...IG used as discrete input circuit
Voltage state 0 guaranteed	<= 5 V for I1...IA and IH...IR discrete input circuit <= 5 V for IB...IG used as discrete input circuit
Current state 1 guaranteed	>= 1.2 mA (IB...IG used as discrete input circuit) >= 2.2 mA (I1...IA and IH...IR discrete input circuit)
Current state 0 guaranteed	<= 0.75 mA (I1...IA and IH...IR discrete input circuit)
Input compatibility	3-wire proximity sensors PNP for discrete input
Analogue input number	4
Analogue input type	Common mode
Analogue input range	0...24 V 0...10 V
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 IB...IG used as analogue input circuit 12 kOhm for IB...IG used as discrete input circuit 7.4 kOhm for I1...IA and IH...IR discrete input circuit
Number of outputs	4 transistor
Output voltage	24 V transistor output
Output voltage limits	19.2...30 V DC (transistor output)
Load current	0.5...0.625 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 0.2...1 x 2.5 mm <sup>2</sup> (AWG 25...AWG 14) semi-solid Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 25...AWG 14) solid Screw terminals, 1 x 0.25...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> (AWG 24...AWG 16) solid Screw terminals, 2 x 0.25...2 x 0.75 mm <sup>2</sup> (AWG 24...AWG 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

Immunity to microbreaks	1 Ms
Product certifications	C-Tick UL GL CSA GOST
Standards	EN/IEC 60068-2-6 Fc EN/IEC 61000-4-12 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-5 EN/IEC 61000-4-11 EN/IEC 61000-4-3 EN/IEC 61000-4-2 level 3
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	-20...40 °C in non-ventilated enclosure conforming to IEC 60068-2-1 and IEC 60068-2-2 -20...55 °C conforming to IEC 60068-2-1 and IEC 60068-2-2
Ambient air temperature for storage	-40...70 °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 Weight	206 G
Package 1 Height	6.5 Cm
Package 1 width	8.8 Cm
Package 1 Length	10 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Weight	6.836 Kg
Package 2 Height	30 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm

## Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
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
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Product Life Status : **Commercialised**