



### Principal

Gama de producto	Zelio Logic
Tipo de producto o componente	Compact smart relay

### Complementos

Local display	With
Number or control scheme lines	0...500 with FBD programming 0...240 with ladder programming
Cycle time	6...90 ms
Backup time	10 years at 25 °C
Clock drift	6 s/month at 25 °C 12 min/year at 0...55 °C
Checks	Program memory on each power up
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2...30 V
Supply current	100 mA (without extension)
Power dissipation in W	6 W without extension
Reverse polarity protection	With
Discrete input number	12 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	$\geq 15$ V for I1...IA and IH...IR discrete input circuit $\geq 15$ V for IB...IG used as discrete input circuit
Voltage state 0 guaranteed	$\leq 5$ V for I1...IA and IH...IR discrete input circuit $\leq 5$ V for IB...IG used as discrete input circuit
Current state 1 guaranteed	$\geq 1.2$ mA for IB...IG used as discrete input circuit $\geq 2.2$ mA for I1...IA and IH...IR discrete input circuit
Current state 0 guaranteed	$\leq 0.75$ mA for I1...IA and IH...IR discrete input circuit $\leq 0.75$ mA for IB...IG used as discrete input circuit
Input compatibility	3-wire proximity sensors PNP (discrete input)
Analogue input number	6
Analogue input type	Common mode
Analogue input range	0...24 V 0...10 V
Maximum permissible voltage	30 V (analogue input circuit)
Analogue input resolution	8 bits
LSB value	39 mV (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 °Cfor analogue input circuit
Operating distance	10 m between stations, with screened cable (sensor not isolated)for analogue input circuit
Input impedance	12 kOhm (IB...IG used as analogue input circuit) 12 kOhm (IB...IG used as discrete input circuit) 7.4 kOhm (I1...IA and IH...IR discrete input circuit)
Number of outputs	8 relay output(s)
Output voltage limits	24...250 V AC (relay output) 5...30 V DC (relay output)
Contacts type and composition	NOfor relay output
Output thermal current	8 A for all 8 outputs (relay output)
Durabilidad eléctrica	500000 cycles AC-12at 230 V, 1.5 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles AC-15at 230 V, 0.9 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-12at 24 V, 1.5 Afor relay output conforming to EN/IEC 60947-5-1 500000 cycles DC-13at 24 V, 0.6 Afor relay output conforming to EN/IEC 60947-5-1
Switching capacity in mA	>= 10 mAat 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 (relay output)
[Uimp] rated impulse withstand voltage	4 kV conforming to EN/IEC 60947-1 and EN/IEC 60664-1
Clock	With
Response time	10 ms (from state 0 to state 1)for relay output 5 ms (from state 1 to state 0)for relay output
Conexiones - terminales	Terminales de tornillo, clamping capacity: 1 x 0.2...1 x 2.5 mm <sup>2</sup> AWG 25...AWG 14 semi-solid Terminales de tornillo, clamping capacity: 1 x 0.2...1 x 2.5 mm <sup>2</sup> AWG 25...AWG 14 solid Terminales de tornillo, clamping capacity: 1 x 0.25...1 x 2.5 mm <sup>2</sup> AWG 24...AWG 14 Flexible with cable end Terminales de tornillo, clamping capacity: 2 x 0.2...2 x 1.5 mm <sup>2</sup> AWG 24...AWG 16 solid Terminales de tornillo, clamping capacity: 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
Peso del producto	0.38 kg

## Ambiente

Immunity to microbreaks	<= 10 ms
Certificaciones de producto	UL CSA GL GOST C-Tick
Normas	EN/IEC 61000-4-4 level 3 EN/IEC 61000-4-2 level 3 EN/IEC 60068-2-6 Fc EN/IEC 61000-4-6 level 3 EN/IEC 61000-4-11 EN/IEC 61000-4-3 EN/IEC 60068-2-27 Ea EN/IEC 61000-4-12 EN/IEC 61000-4-5
IP degree of protection	IP20 (terminal block) conforme a IEC 60529 IP40 (front panel) conforme a 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
Temperatura ambiente de almacenamiento	-40...70 °C
Operating altitude	2000 m
Altitude transport	<= 3048 m
Relative humidity	95 % without condensation or dripping water

### Garantía contractual

Warranty period	18 months
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