



Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Speed control relays
Relay name	RM35S
Relay monitored parameters	Overspeed Underspeed
Time delay range	0.6...60 s adjustable on energisation delay (tolerance: 0...10 % of the full scale-value)
Switching capacity in VA	1250 VA
Minimum switching current	10 mA at 5 V DC
[Us] rated supply voltage	24...240 V AC/DC
Maximum power consumption in VA	5 VA AC
Measurement range	0.05...0.5 s 0.5...5 min 1...10 min 1...10 s 0.5...5 s 0.1...1 s 0.1...1 min
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-14 conforming to IEC 60947-5-1

Complementary

Reset time	50 Ms contact S2 in memory mode on time delay 1 S supply Un in memory mode on time delay
Maximum switching voltage	250 V AC/DC
Supply voltage limits	20.4...264 V AC/DC
Maximum power consumption in W	3 W DC
Width	35 Mm
Output contacts	1 C/O
Contacts material	Cadmium free
Nominal output current	5 A
Run-up delay at power-up	0.05 S
Hysteresis	5 % of threshold
Measurement accuracy	+/- 10 % of the full scale value

Repeat accuracy	+/- 0.5 % for input and measurement circuit +/- 0.5 % for time delay
Measurement error	+/- 0.1 %/°C with temperature variation < +/- 1 % over the whole range with voltage variation
Input frequency	0.0017...20 Hz
Response time	15 ms max (on crossing the threshold)
Polarity	Reversible polarity on DC supply
Threshold setting	10...100 %
[Us] rated supply voltage	11.5...12.5 V
Maximum supply current for sensors	40 MA for < 24 V AC at 25 °C 40 MA for < 24 V DC at 25 °C 50 MA for 24...240 V AC 50 MA for 24...240 V DC
Impulse duration	>= 5 ms high state >= 5 ms low state
Input compatibility	3-wire sensor (E1) PNP or NPN, 12 V, 50 mA NAMUR sensor (E2), 12 V, 1.5 kOhm Voltage input (E1), 0...30 V, 9.5 kOhm, high state >= 4.5 V low state <= 1 V Volt-free contact input (E1), 12 V, 9.5 kOhm
Marking	CE : EMC 89/336/EEC CE : 73/23/EEC
Overvoltage category	III conforming to IEC 60664-1
Insulation resistance	> 500 MOhm at 500 V DC between supply and relay output conforming- to IEC 60255-5 > 500 MOhm at 500 V DC between measurement and relay output conforming- to IEC 60664-1 > 1 MOhm at 500 V DC between supply and measurement conforming- to IEC 60255-5 > 500 MOhm at 500 V DC between supply and relay output conforming- to IEC 60664-1 > 500 MOhm at 500 V DC between measurement and relay output conforming- to IEC 60255-5 > 1 MOhm at 500 V DC between supply and measurement conforming- to IEC 60664-1
[UI] rated insulation voltage	250 V conforming to IEC 60664-1
Control circuit voltage limits	- 15 % + 10 % Un
Supply frequency	50/60 Hz +/- 10 %
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm ² (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without ca- ble end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 12) flexible with ca- ble end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with ca- ble end
Tightening torque	0.6...1 N.M conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED green for power ON 1 LED yellow for inhibit 1 LED yellow for relay (R)
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715
Electrical durability	100000 Cycles
Mechanical durability	30000000 Cycles
Operating rate	<= 360 operations/hour full load

Environment

Immunity to microbreaks	50 Ms
Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
Standards	NF EN 60255-6 IEC 60255-6
Product certifications	C-Tick GOST UL GL CSA
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	0.35 mm (f= 5...57.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 1 gn (f= 57.6...150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dielectric test voltage	2 KV AC 50 Hz
Non-dissipating shock wave	4 KV

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	134 G
Package 1 Height	4.8 Cm
Package 1 width	7.8 Cm
Package 1 Length	9.7 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Weight	7.181 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) 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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
----------	-----------

Product Life Status : **Commercialised**