



Main

Range of product	Zelio Time
Product or component-type	Modular timing relay
Device short name	RENF22
Operating system	Android
Software version	V4.4 and above
Software designation	Zelio NFC (downloadable from Google Play store)

Complementary

Discrete output type	Relay
Nominal output current	8 A
Contacts type and composition	2 C/O timed contact, cadmium free 1 C/O timed and instantaneous contact, cadmium free
Time delay type	A Ac Ad Ah Ak At B Bw C D Di H Ht L Li Lt N O P Pt Qt TI Tt W Lit Dt Dit Qtt
Time delay range	0.1 s...999 h
Product compatibility	NFC enabled mobile device
[Us] rated supply voltage	24...240 V AC/DC
Input voltage	<= 2.4 V
Voltage range	0.85...1.1 Un
Nominal power	0.0002 mW
Maximum operating frequency	13.56 MHz
Supply frequency	50...60 Hz +/- 5 %

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Connections - terminals	Screw terminals 1 x 0.5...1 x 3.3 mm ² AWG 20...AWG 12 solid cable without cable end Screw terminals 2 x 0.5...2 x 2.5 mm ² AWG 20...AWG 14 solid cable without cable end Screw terminals 1 x 0.2...1 x 2.5 mm ² AWG 24...AWG 14 flexible cable with cable end Screw terminals 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16 flexible cable with cable end
Tightening torque	5.3...8.8 lbf.in conforming to IEC 60947-1 0.6...1 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.2 % for 10 s...999 h time delay range +/- 0.5 % for 100 ms...10 s time delay range
Temperature drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 1 % for 1...999 h time delay range at 25 °C +/- 2 % for 1 h time delay range at 25 °C +/- 20 ms for 100 ms...10 s time delay range at 25 °C
Minimum pulse duration	60 ms no-load 100 ms with load in parallel
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Reset time	120 ms on de-energisation
Power consumption in VA	3 VA at 240 V AC
Power consumption in W	1.5 W at 240 V DC 0.6 W at 24 V DC
Switching capacity in VA	2000 VA
Minimum switching current	10 mA at 5 V
Maximum switching current	8 A
Maximum switching voltage	250 V
Electrical durability	100000 cycles at 8 A, 250 V AC on resistive load
Mechanical durability	10000000 cycles
[Uimp] rated impulse withstand voltage	5 kV for 1.2/50 µs conforming to IEC 60664-1
Delay response	< 100 ms
Creepage distance	4 kV/3 conforming to IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Safety reliability data	MTTFd = 227.5 years for 100 % duty cycle continuous operating condition- at 30 °C
Mounting position	Any position
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Local signalling	Un, green LED: (steady) for power ON R1, amber LED: (steady) for relay energised R1, amber LED: (blinking) for timing in progress R2, amber LED: (steady) for relay energised R2, amber LED: (blinking) for timing in progress Pairing, green LED: (steady) for communication status Un, green LED: (fast blinking) for diagnosis mode
Operating distance	10 mm
Response time	2 s
Width	22.5 mm
Product weight	0.0904 kg

Environment

Immunity to microbreaks	<= 10 ms
Dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation
Standards	EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 EN 61812-1
Directives	2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive 2014/53/EU - radio equipment directive
Product certifications	CE CSA UL KC
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...70 °C
IP degree of protection	IP20 on terminals conforming to IEC 60529 IP40 on housing conforming to IEC 60529 IP40 on front face conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Vibration resistance	20 m/s ² at 10...150 Hz conforming to IEC 60068-2-6
Shock resistance	15 gn (not operating) during 11 ms conforming to IEC 60068-2-27 5 gn (in operation) during 11 ms conforming to IEC 60068-2-27
Relative humidity	95 % at 25...55 °C
Electromagnetic compatibility	Electrostatic discharge immunity test (test level: 6 kV, level 3 - contact discharge) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test (test level: 8 kV, level 3 - air discharge) conforming to EN/IEC 61000-4-2 Fast transients immunity test (test level: 1 kV, level 3 - capacitive connecting-clip) conforming to IEC 61000-4-4 Fast transients immunity test (test level: 2 kV, level 3 - direct contact) conforming to IEC 61000-4-4 Surge immunity test (test level: 1 kV, level 3 - differential mode) conforming to IEC 61000-4-5 Surge immunity test (test level: 2 kV, level 3 - common mode) conforming to IEC 61000-4-5 Radiated radio-frequency electromagnetic field immunity test (test level: 10 V, level 3 - 0.15...80 MHz) conforming to IEC 61000-4-6 Electromagnetic field immunity test (test level: 10 V/m, level 3 - 80 MHz...1 GHz) conforming to IEC 61000-4-3 Immunity to microbreaks and voltage drops (test level: 30 % - 500 ms) conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops (test level: 100 % - 20 ms) conforming to IEC 61000-4-11 Radiated emission, class B conforming to EN 55022 Conducted emission, class A conforming to EN 55022 Electromagnetic field immunity test (test level: 3 V/m, level 2 - 1.4 GHz...2 GHz) conforming to IEC 61000-4-3 Electromagnetic field immunity test (test level: 1 V/m, level 1 - 2...2.7 GHz) conforming to IEC 61000-4-3

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1551 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Product Life Status : **Commercialised**