

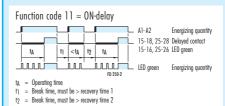


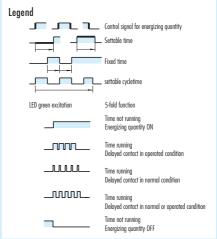
NGZ 72

ON-delay multi-range time relay

- Multi-voltage for AC/DC 24 to 240 V
- 1 function, ON-delay
- Setting range from 0.1 s to 300 h divided into 16 switchable time ranges
- 2 changeover contacts
- 2 LEDs for function display

Functions





Time ranges

Setting range from 0.1 s to 300 h divided into:

≤ 0.1	to	1 s	1.5	to	30	min
0.15	to	3 s	3	to	60	min
0.5	to	10 s	5	to	100	min
1.5	to	30 s	0.15	to	3	h
5	to	100 s	0.5	to	10	h
15	to	300 s	1.5	to	30	h
0.5	to	10 min	5	to	100	h
50	to	1000 s	15	to	300	h

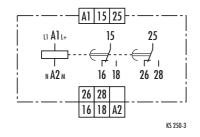
Features

Setting the time delay

The time range is set with the RANGE selector switch and displayed in the window next to it. The required delay time is set with a setting wheel.

LEDs show the state of the excitation input and the position of the contacts. You can monitor the countdown on a flashing LED.

Connection diagram

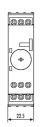


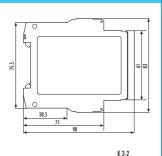
Note

The device is designed for multi-voltage. Connect phase L1 or L + to terminal A1 and neutral N or M to terminal A2.

You can change the delay time during operation. The change is effective immediately.

Dimensions





Ordering designation

NGZ 72

Price code: 40.1



Technical data				
Device type	NGZ 72			
Product norm (Time relays)	EN 61812-1:1999-08			
Relay function				
according to IEC 60050	445-01-02			
Function diagram Function display	FD 250 - 2 2 LEDs green			
Ambient operating temperature range	-25 to + 60 °C			
Input circuit				
Rated voltage A1 - A2	AC/DC 24 to 240 V			
Rated power AC	3.5 VA/1.7 W			
Rated power DC	1.6 W			
Rated voltage limits	70 to 110 %			
Rated frequency f _n Release value of input voltage	50 to 60 Hz ± 5 % ≥ AC/DC 10 V; permissible line			
(line capacitance approx. 150 pF/m)	capacitance 0.2 μF			
Parallel load permitted	A1-A2 yes			
Internal one-way rectifier	A1-A2 yes A1-A2 no			
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Time circuit Time setting / number of time ranges	angles /16			
Setting ranges for time delay	analog/16 from ≤ 0.1 s to 300 h divided into:			
Jenning runges for time delay	\leq 0.1 to 1 s 1.5 to 30 min 0.15 to 3 s 3 to 60 min			
	0.5 to 10 s 5 to 100 min 1.5 to 30 s 0.15 to 3 h			
	5 to 100 s 0.5 to 10 h 15 to 300 s 1.5 to 30 h			
	0.5 to 10 min 5 to 100 h			
	50 to 1000 s 15 to 300 h			
Recovery time 1/2	$\leq 50/\leq 50$ ms			
Minimum ON time 1/2	- /- ms			
Setting tolerance	≤±5%			
Repeatability (to set value)	$\leq \pm 0.01 \% + \pm 10 \text{ ms}$			
Influence of temperature (within range)	≤ ± 0.002 %			
Influence of voltage (within range)	≤ ± 0.002 %			
Output circuit				
Contact equipment	2 changeover contacts			
Contact material	AgNi 90/10			
Rated operating voltage	AC/DC 24 to 240 V			
Rated value for limiting continuous current Ith	5 A			
Minimum contact load	≥ AC/DC 5 V/≥ 10 mA			
Utilization category according to IEC 60947 - 5 - 1	AC-15 U _e AC 230 V, I _e 3 A			
Permissible switching frequency	DC-13 U _e DC 24 V, I _e 2 A ≤ 3600 switching cycles/h			
Mechanical service life	30 x 10 ⁶ switching cycles			
Electrical service life	STATE STREETING CYCLOS			
20/2 A, AC 250 V, cos φ = 0.3	0.12 x 10 ⁶ switching cycles AC-15			
Operate time / release time for excitation A1 - A2	40 ms			
Other data				
Clearance/creepage distances to IEC 60664 - 1 Contamination level	2 autoida 2 insid-			
Contamination level Overvoltage category	3 outside, 2 inside III			
Rated voltage	AC/DC 275 V			
Protection class housing / terminals acc. to	IP 40/IP 20			
IEC 60529	Test level 3			
Interference immunity acc. to IEC 61000 - 4				
Dimensions (housing)	K 3-2			
Terminal connection diagram	KS 250 - 3			
Connection cross sections single or fine wire	1 x 0,2 to 6 or 2 x 0,2 to 2,5 mm ²			
fine wire with connector sleeve	1 x 0,4 to 4 or 2 x 0,2 to 1,5 mm ²			
Weight	0.11 kg			
General Technical Specifications	NGG Catalogue			