

NGZ 320

OFF-delay single-range time relay
with auxiliary supply

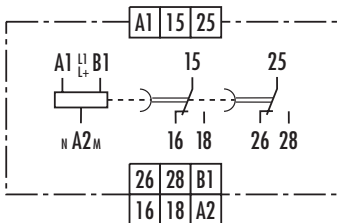
- Multi-voltage for AC/DC 24 to 240 V
- 1 function, OFF-delay
- 13 time ranges available
- 2 changeover contacts
- 2 LEDs for function display

Time ranges

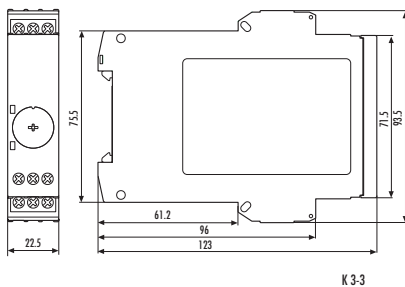
Available time ranges:

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

Connection diagram



Dimensions



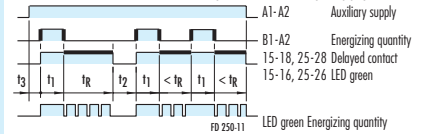
Ordering designation

NGZ 320 plus time range

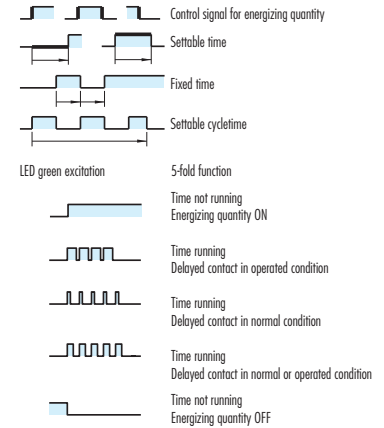
Price code: 76.1

Functions

Function code 12 = OFF-delay, with auxiliary supply



Legend



Note

The device is designed for multi-voltage. Connect phase L1 or L+ to terminal A1 and B1 and neutral N and/or M to terminal A2.

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

Technical data

Device type	NGZ 320
Product norm (Time relays)	EN 61812-1:1999-08
Relay function according to IEC 60050	445-01-04 + 445-03-02
Function diagram	FD 250 - 11
Function display	2 LEDs green
Ambient operating temperature range	-25 to + 60 °C
Input circuit	
Rated voltage A1 - A2, B1 - 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	50 to 60 Hz ± 5 %
Release value of input voltage (line capacitance approx. 150 pF/m)	≥ AC/DC 10 V; permissible line capacitance 0.2 μF
Rated current on control connection (B1 - A2)	1 mA
Rated power on control connection (B1 - A2)	< 0.25 W
Parallel load permitted	A1 - A2 yes/B1 - A2 yes
Internal one-way rectifier	A1 - A2 no/B1 - A2 yes
Time circuit	
Time setting / number of time ranges	analog/1
Setting ranges for time delay	from ≤ 0.1 s to 100 h, available in ranges: ≤ 0.1 s to 1 s 0.5 s to 10 min 0.15 s to 3 s 1.5 s to 30 min 0.5 s to 10 s 3 s to 60 min 1.5 s to 30 s 0.5 h to 10 h 5 s to 100 s 1.5 h to 30 h 15 s to 300 s 5 h to 100 h 50 s to 1000 s
Recovery time 1/2	0/0 ms
Minimum ON time 1/2	≤ 25/- ms
Setting tolerance	≤ ± 5 %
Repeatability (to set value)	≤ ± 0.01 % + ± 10 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 I _{th}	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 DC-13 U _e DC 24 V, I _e 2 A
Permissible switching frequency	≤ 3600 switching cycles/h
Mechanical service life	30 x 10 ⁶ switching cycles
Electrical service life 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
Operate time / release time for excitation B1 - A2	20 ms
Other data	
Clearance/creepage distances to IEC 60664 - 1	
Contamination level	3 outside, 2 inside
Overvoltage category	III
Rated voltage	AC/DC 275 V
Protection class housing / terminals acc. to IEC 60529	IP 40/IP 20
Interference immunity acc. to IEC 61000-4	Test level 3
Dimensions (housing)	K 3-3
Terminal connection diagram	KS 250 - 9
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	0.13 kg
General Technical Specifications	NGG Catalogue