

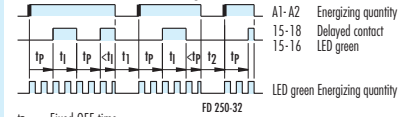
NGB 11

Fixed time flasher relay

- Multi-voltage for AC/DC 24 to 240 V
- 1 function, symmetrical flashing, starts OFF
- Fixed time 0.5 s/0.5 s
- 1 changeover contact
- 2 LEDs for function display

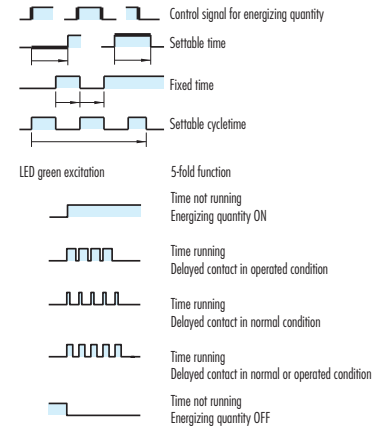
Functions

Function code 41 = flashing, starts OFF



t_p = Fixed OFF time
 t_1 = Fixed ON time
 $t_p = t_1$
 t_1 = Break time, must be > recovery time 1
 t_2 = Break time, must be > recovery time 2

Legend



Time ranges

Fixed time 0.5 s/0.5 s

Features

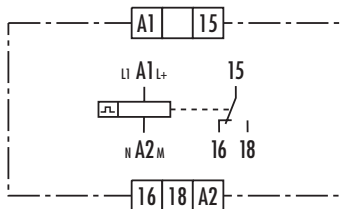
Time delay

The NGB 11 time relay is supplied with fixed ON and OFF time.

ON time = 0.5 s
 OFF time = 0.5 s

LEDs show the state of the excitation input and the position of the contacts.

Connection diagram

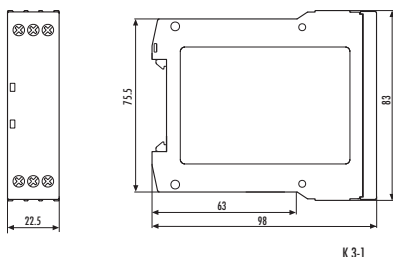


KS 250-19

Note

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

Dimensions



Ordering designation

NGB 11

Price code: 84.1

Technical data

Device type	NGB 11
Product norm (Time relays)	EN 61812-1:1999-08
Relay function according to IEC 60050	445-01-06
Function diagram	FD 250 - 32
Function display	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	50 to 60 Hz \pm 5 %
Release value of input voltage (line capacitance approx. 150 pF/m)	\geq AC/DC 10 V; permissible line capacitance 0.2 μ F
Parallel load permitted	A1 - A2 yes
Internal one-way rectifier	A1 - A2 no
Time circuit	
Time setting / number of time ranges	analog/1 fixed time
Time delay ranges	0.5 s/0.5 s
Cycle start	OFF
Recovery time 1/2	\leq 50/ \leq 50 ms
Setting tolerance	$\leq \pm$ 5 %
Repeatability (to set value)	$\leq \pm$ 0.01 % + \pm 10 ms
Influence of temperature (within range)	\leq + 6,5 % / - 8 %, typ. approx. 1 %
Influence of voltage (within range)	$\leq \pm$ 0.002 %
Output circuit	
Contact equipment	1 changeover contact
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	\geq AC/DC 5 V/ \geq 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	\leq 3600 switching cycles/h
Mechanical service life	30 x 10 ⁶ switching cycles
Electrical service life 20/2 A, AC 250 V, $\cos \varphi = 0,3$	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	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 - 1
Terminal connection diagram	KS 250 - 19
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	0.1 kg
General Technical Specification	NGG Catalogue