



NGB 12

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
- 2 changeover contacts
- 2 LEDs for function display

Time ranges **Features** Time delay Fixed time 0.5 s/0.5 sThe NGB 12 time relay is supplied with fixed ON and OFF time. ON time = 0.5 sOFF time = 0.5 sLEDs show the state of the excitation input and the position of the contacts. **Connection diagram** L1 **A1** L+ 15 25 16 18 26 28 26 28 16 18 A2 Note KS 250-20 The device is designed for multi-voltage. Connect phase L1 or L + to terminal A1 and neutral N**Dimensions** or M to terminal A2.

Functions Function code 41 = flashing, starts OFF 15-18, 25-28 Delayed contact 11 15-16, 25-26 LED green tp t1 tp <11 t1 tp t1 <1p t2 tp LED green Energizing quantity = Fixed OFF time = Fixed ON time tp = t1 t1 = Break time, must be > recovery time 1 t2 = Break time, must be > recovery time 2 Control signal for energizing quantity Settable time Settable cycletime 5-fold function LED green excitation Time not running Energizing quantity ON Delayed contact in operated condition Delayed contact in normal condition ______ Time running Delayed contact in normal or operated condition Time not running Energizing quantity OFF

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Price code: 86.1

Ordering designation



	Relais und Automatisierungssysteme
Tochnical data	
Technical data	
Device type	NGB 12
Product norm (Time relays)	EN 61812-1:1999-08
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Relay function	
according to IEC 60050	445-01-06
Function diagram	FD 250 - 33
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 %
	50 to 60 Hz ± 5 %
Rated frequency f _n	
Release value of input voltage	≥ AC/DC 10 V; permissible line
(line capacitance approx. 150 pF/m)	capacitance 0.2 μF
Parallel load permitted	A1-A2yes
Internal one-way rectifier	A1-A2 no
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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	≤±5 %
Repeatability (to set value)	$\leq \pm \ 0.01 \ \% + \pm \ 10 \ ms$
Influence of temperature (within range)	≤ + 6,5 % / - 8 %, typ. approx. 1 %
Influence of voltage (within range)	≤± 0.002 %
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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	AC-15 U _e AC 230 V, I _e 3 A
IEC 60947 - 5 - 1	DC-13 U _e DC 24 V, I _e 2 A
	≤ 3600 switching cycles/h
Permissible switching frequency	
Mechanical service life	30 x 10 ⁶ switching cycles
Electrical service lite	
$20/2$ 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	
Rated voltage	AC/DC 275 V
Protection class housing / terminals acc. to	IP 40/IP 20
IEC 60529	
Interference immunity acc. to IEC 61000-4	Test level 3
Dimensions (housing)	K 3-2
Terminal connection diagram	KS 250 - 20
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
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Company Tankar's LC	NCC Catalana
General Technical Specification	NGG Catalogue