

NGW 11

Signal - Watchdog Relay

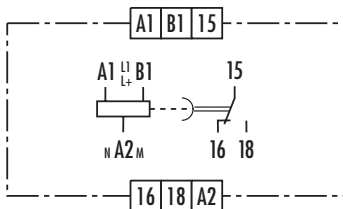
- Multi-voltage for AC/DC 24 to 240 V
- 1 function, signal-watchdog with auxiliary supply
- 3 time ranges available
- 1 changeover contact
- 2 LEDs for function display

Time ranges

Available time ranges:

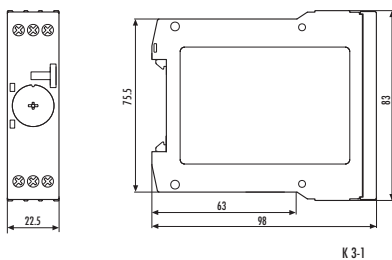
- 0.5 to 10 s
- 1.5 to 30 s
- 5 to 100 s

Connection diagram



KS 250-23

Dimensions



K 3-1

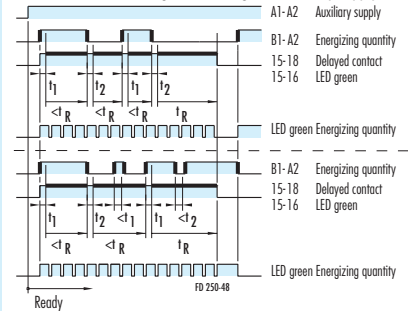
Ordering designation

NGW 11

Price code: 58.1

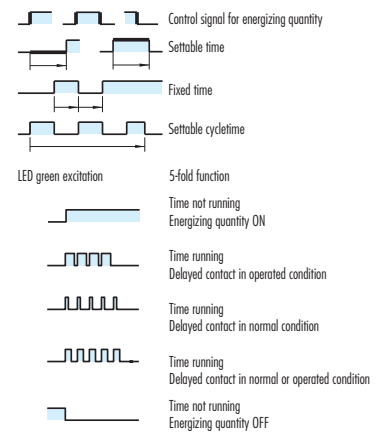
Functions

Function code 14 = signal-watchdog with auxiliary supply



- t_R = Returning time
- t_1, t_2 = Operate time for energizing quantity
- t_1 = Make time, must be > minimum ON time 1
- t_2 = Make time, must be > recovery time 1

Legend



Features

Setting the time delay

The required delay time is set with a setting wheel. You can adjust it with a screwdriver.

Method of operation: On the NGW 11 when the energizing quantity (B1 - A2) is switched on and the auxiliary supply (A1 - A2) is also on the timed changeover contact switches to operated condition and the countdown starts. The countdown restarts each time the energizing quantity is switched off and on during the delay time. If the break or make time of the energizing quantity is longer than the delay time t , the timed changeover contact switches to normal condition. When the energizing quantity is switched on again after the countdown the timed changeover contact remains in normal condition. The timed changeover contact switches to normal condition immediately when the auxiliary supply is switched off.

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

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 delay time during operation. The change is effective immediately.

Technical data

	Device type	NGW 11
	Product norm (Time relays)	EN 61812 - 1:1999 - 08
	Relay function according to IEC 60050	445 - 01 - 04
	Function diagram	FD 250 - 48
	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 \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
	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 0.5 s to 100 s, available in ranges:
		0.5 to 10 s
		1.5 to 30 s
		5.0 to 100 s
	Recovery time 1	\leq 25 ms
	Minimum ON time 1	\leq 25 ms
	Setting tolerance	$\leq \pm$ 5 %
	Repeatability (to set value)	$\leq \pm$ 0.01 % + \pm 10 ms
	Influence of temperature (within range)	$\leq \pm$ 0.002 %
	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
	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 - 1
	Terminal connection diagram	KS 250 - 23
	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