

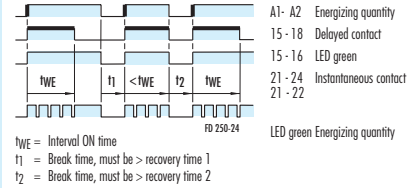
NGY 72 - S

Interval ON multi-range relay

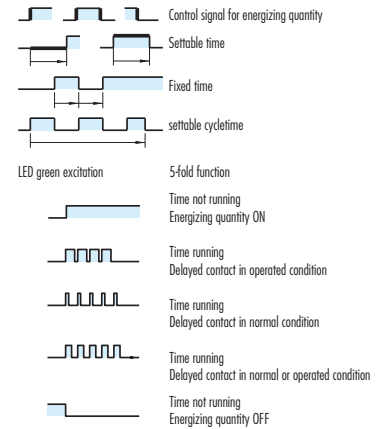
- Multi-voltage for AC/DC 24 to 240 V
- 1 function, interval ON
- Setting range from 0.1 s to 300 h divided into 16 switchable time ranges
- 1 instantaneous changeover contact and 1 timed changeover contact
- 2 LEDs for function display

Functions

Function code 21-ON = interval ON



Legend



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

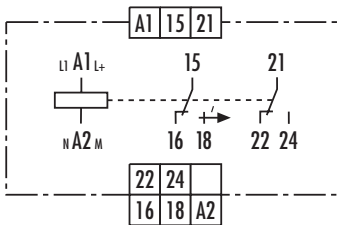
Features

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.

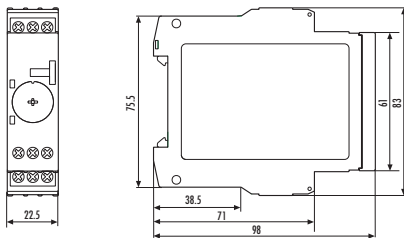
LEDs show the state of the excitation input and the position of the contacts. You can monitor the countdown on a flashing LED.

Connection diagram



KS 250-15

Dimensions



K 3-2

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.

Ordering designation

NGY 72 - S

Price code: 34.1

Technical data

	Device type	NGY 72 - S																								
	Product norm (Time relays)	EN 61812 - 1:1999-08																								
	Relay function according to IEC 60050	445-01-08 + 445-04-05																								
	Function diagram	FD 250 - 24																								
	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/16																								
	Setting ranges for time delay	from \leq 0.1 s to 300 h divided into:																								
		<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">\leq 0.1 to 1 s</td> <td style="width: 33%;">1.5 to 30 min</td> <td style="width: 33%;"></td> </tr> <tr> <td>0.15 to 3 s</td> <td>3 to 60 min</td> <td></td> </tr> <tr> <td>0.5 to 10 s</td> <td>5 to 100 min</td> <td></td> </tr> <tr> <td>1.5 to 30 s</td> <td>0.15 to 3 h</td> <td></td> </tr> <tr> <td>5 to 100 s</td> <td>0.5 to 10 h</td> <td></td> </tr> <tr> <td>15 to 300 s</td> <td>1.5 to 30 h</td> <td></td> </tr> <tr> <td>0.5 to 10 min</td> <td>5 to 100 h</td> <td></td> </tr> <tr> <td>50 to 1000 s</td> <td>15 to 300 h</td> <td></td> </tr> </table>	\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	
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	Recovery time 1/2	\leq 50/ \leq 50 ms																								
	Minimum ON time 1/2	- / - 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 instantaneous changeover contact and 1 timed 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 Ue AC 230 V, Ie 3 A DC-13 Ue DC 24 V, Ie 2 A																								
	Permissible switching frequency	\leq 3600 switching cycles/h																								
	Mechanical service life	30×10^6 switching cycles																								
	Electrical service life 20/2 A, AC 250 V, $\cos \varphi = 0.3$	0.12×10^6 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 - 2																								
	Terminal connection diagram	KS 250 -15																								
	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																								