

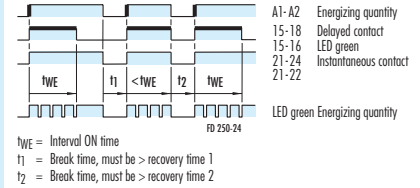
NGYP 32 - S

Interval ON single-range relay

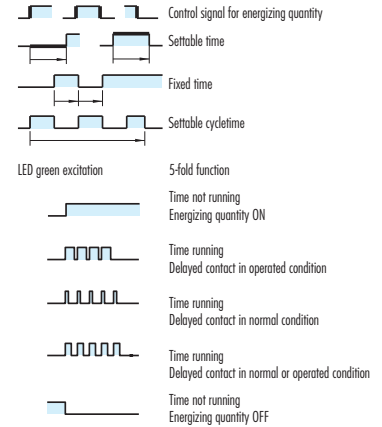
- Multi-voltage for AC/DC 24 to 240 V
- 1 function, interval ON
- 13 time ranges available
- Remote potentiometer connection
- 1 instantaneous changeover contact and 1 timed changeover contact
- 2 LEDs for function display

Functions

Function code 21-ON = interval ON



Legend



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	

Features

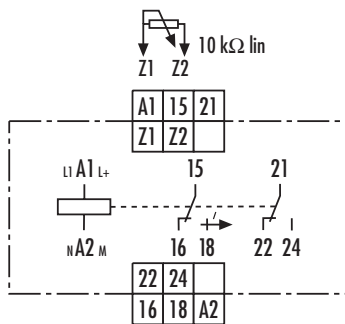
Setting the time delay

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

Connecting a remote potentiometer allows you to set parameters from further away. When a remote potentiometer is used, set the time setting wheel to the right-hand stop above the largest value. Operation without remote potentiometer does not require a jumper on the device.

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



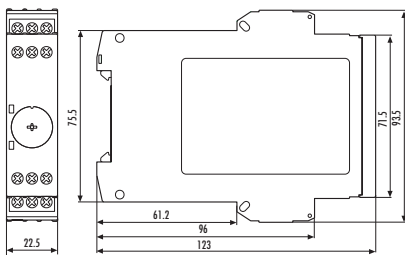
KS 250-16

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.

Dimensions



K 3-3

Ordering designation

NGYP 32 - S plus time range

Price code: 64.1

Accessories

Remote potentiometer FP 10 k

Price code: 98.1

Technical data

Device type	NGYP 32 - 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 (internal + external)/1														
Setting ranges for time delay	from \leq 0.1 s to 100 h, available in ranges:														
	<table style="width: 100%; border: none;"> <tbody> <tr> <td>\leq 0.1 to 1 s</td> <td>0.5 to 10 min</td> </tr> <tr> <td>0.15 to 3 s</td> <td>1.5 to 30 min</td> </tr> <tr> <td>0.5 to 10 s</td> <td>3 to 60 min</td> </tr> <tr> <td>1.5 to 30 s</td> <td>0.5 to 10 h</td> </tr> <tr> <td>5 to 100 s</td> <td>1.5 to 30 h</td> </tr> <tr> <td>15 to 300 s</td> <td>5 to 100 h</td> </tr> <tr> <td>50 to 1000 s</td> <td></td> </tr> </tbody> </table>	\leq 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	
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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 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 - 3														
Terminal connection diagram	KS 250 - 16														
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	0.14 kg														
Accessories	Remote potentiometer FP 10 k														
General Technical Specification	NGG Catalogue														