



NGYP 72 - S

Interval ON multi-range relay

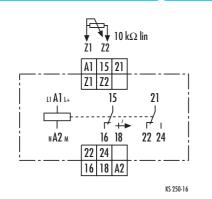
- Multi-voltage for AC/DC 24 to 240 V
- 1 function, interval ON
- Setting range from 0.1 s to 300 h divided into 16 switchable time ranges
- Remote potentiometer connection
- 1 instantaneous changeover contact and
 1 timed changeover contact
- 2 LEDs for function display

Time ranges

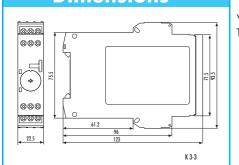
Setting range from 0.1 s to 300 h divided

into:					
<u><</u> 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

Connection diagram



Dimensions



Ordering designation

NGYP 72 - S

Price code: 36.1

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.

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.

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.

Accessories

Remote potentiometer FP 10 k Price code: 98.1

Function code 21-ON = interv WE 11 < WE 12 WE 11 < WE 12 WE Interval ON time 11 = Break time, must be > recovery time 12 = Break time, must be > recovery time	A1- A2 Energizing quantity 15-18 Delayed contoct 15-16 — LED green 21-22 Instratomeous contoct 21-22 LED green Energizing quantity 1
	Control signal for energizing quantity Settable time Fixed time settable cycletime
LED green excitation	5-fold function Time not running
	Energizing quantity ON Time running Delayed contact in operated condition
	Time running Delayed contact in normal condition
	Time running Delayed contact in normal or operated condition
	Time not running Energizing quantity OFF

Functions

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	Relais und Automatisierungs:			
Technic	al data			
Device type	NGYP 72 - S			
Product norm (Time relays)	EN 61812-1:1999-08			
Floaber norm (nine relays)	LIN 01012-1.1999-00			
Relay function according to IEC 60050	445 01 08 - 445 04 05			
Function diagram	445-01-08 + 445-04-05 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 Rated voltage limits	1.6 W 70 to 110 %			
Rated frequency fn	50 to 60 Hz ± 5 %			
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 - A2 yes A1 - A2 no			
Internal one-way rectifier				
Time circuit				
Time setting / number of time ranges Setting ranges for time delay	analog (internal + external)/16 from ≤ 0.1 s to 300 h divided into:			
Sening ranges for time delay	≤ 0.1 to 1 s 1.5 to 30 min			
	0.15 to 3 s 3 to 60 mir			
	0.5 to 10 s 5 to 100 mir			
	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			
Recovery time 1/2 Minimum ON time 1/2	≤ 50/ ≤ 50 ms - / - ms			
Setting tolerance	$\leq \pm 5\%$			
Repeatability (to set value)	\leq ± 0.01 % + ± 10 ms			
Influence of temperature (within range)	≤±0.002 %			
Influence of voltage (within range)	≤±0.002 %			
Output circuit				
Contact equipment	1 instantaneous changeover contact and			
Contact material	1 timed changeover contact AgNi 90/10			
Rated operating voltage	AC/DC 24 to 240 V			
Rated value for limiting continuous current lth	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	≤ 3600 switching cycles/h			
Mechanical service life	30 x 10 ⁶ switching cycles			
Electrical service life	0.12 x 10 ⁶ switching cycles AC–15			
20/2 A, AC 250 V, $\cos \varphi = 0.3$ Operate time / release time for excitation A1 - A2				
Other data				
Clearance/creepage distances to IEC 60664 - 1				
Contamination level	3 outside, 2 inside			
Overvoltage category	III			
Rated voltage Protection class housing / terminals acc. to				
Protection class housing / terminals acc. to IEC 60529	IP 40/IP 20			
Interference immunity acc. to IEC 61000 - 4	Test level 3			
Dimensions (housing)	К 3-3			
Terminal connection diagram	KS 250 - 16 1 x 0 2 to 6 or 2 x 0 2 to 2 5 mm^2			
Connection cross sections single or fine wire fine wire with connector sleeve	1 x 0,2 to 6 or 2 x 0,2 to 2,5 mm ² 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			
Conoral Technical Englishing	NGG Catalogue			
General Technical Specifications	NGG Catalogue			