

MA4N

Multi timer

- Time unit 4 kinds
- Multi range 4 kinds
- Reset, start, prohibited input
- Output operation mode 6 kinds



Specification

Model		MA4N-A	MA4N-B	MA4N-C
Power Supply voltage		24 - 240 V a.c. / d.c. 50 - 60 Hz		
Voltage regulation		± 10 % from supply voltage		
Power consumption		5.3 VA (240 V a.c.), 2.5 W (240 V d.c.)		
Resetting time		0.1 sec max		
Min Signal length	START Input	20 ms min		-
	INHIBIT Input			
	RESET Input			
Input condition	START Input	<ul style="list-style-type: none"> ▪Non voltage Input ▪Impedance in a short circuit : 2 kΩ max ▪Residual voltage in a short circuit : 0.7 V d.c. max ▪Impedance in open : 100 kΩ min 		-
	INHIBIT Input			
	RESET Input			
Output		Time limit 2c	Time limit 1c, Instantaneous 1c	Time limit 2c Time limit 1c Instantaneous 1c
		<ul style="list-style-type: none"> ▪NO : 10 A 125 V a.c., 5 A 250 V a.c., 5 A 30 V d.c. ▪NC : 3 A 125 V a.c., 2 A 250 V a.c., 1 A 30 V d.c. 		
Setting error		± 5 % ± 0.05 sec max		
Repeat error		± 0.3 % max		
Temperature error		± 2 % max		
Insulation resistance		100 MΩ min (Base on 500 V d.c.)		
Dielectric strength		2000 V a.c. 50 / 60 Hz for 1 min		
Impulse voltage		± 2000 V max		
Vibration	Mechanical durability	10 - 55 Hz double amplitude 0.75 mm		
	Malfunction durability	10 - 55 Hz double amplitude 0.5 mm		
Shock	Mechanical durability	300 m/s ² (Approx. 30 G)		
	Malfunction durability	100 m/s ² (Approx. 10 G)		
Life expectancy	Mechanical	Over 10 million operations (Open & Short frequency : 180 / min)		
	Electrical	Over 100,000 (250 V a.c. 3 A load resistance)		
Terminal type		Socket type 11 Pin		Socket type 8 Pin
Ambient temperature		-10 ~ 55 °C (With no condensation)		
Conservation temperature		-20 ~ 65 °C (With no condensation)		
Ambient humidity		35 ~ 85 % R.H.		
Weight		About 100 g (Including fixing bracket)		
Certification				

Suffix code

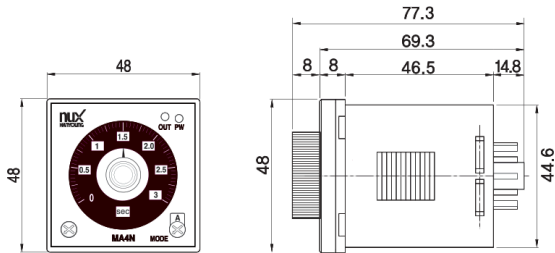
Model	Code	Description
MA4N-		Analog multi timer (48 × 48 mm)
Device selection	A	2c (Time limit) * 11 pin type

	B	2c (Time limit + Instantaneous) * 11 pin type
	C	2c (Time limit), 2c (Time limit + Instantaneous) *Processed by mode selection (8 pin type)
Power voltage		24 - 240 V a.c / d.c (50 - 60 Hz) Dual usage

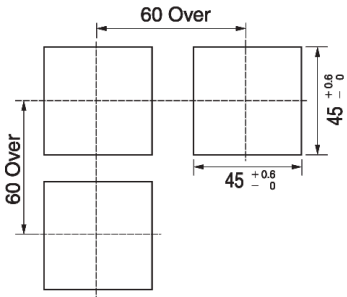
Dimension & Panel cutout

[Unit : mm]

Dimension



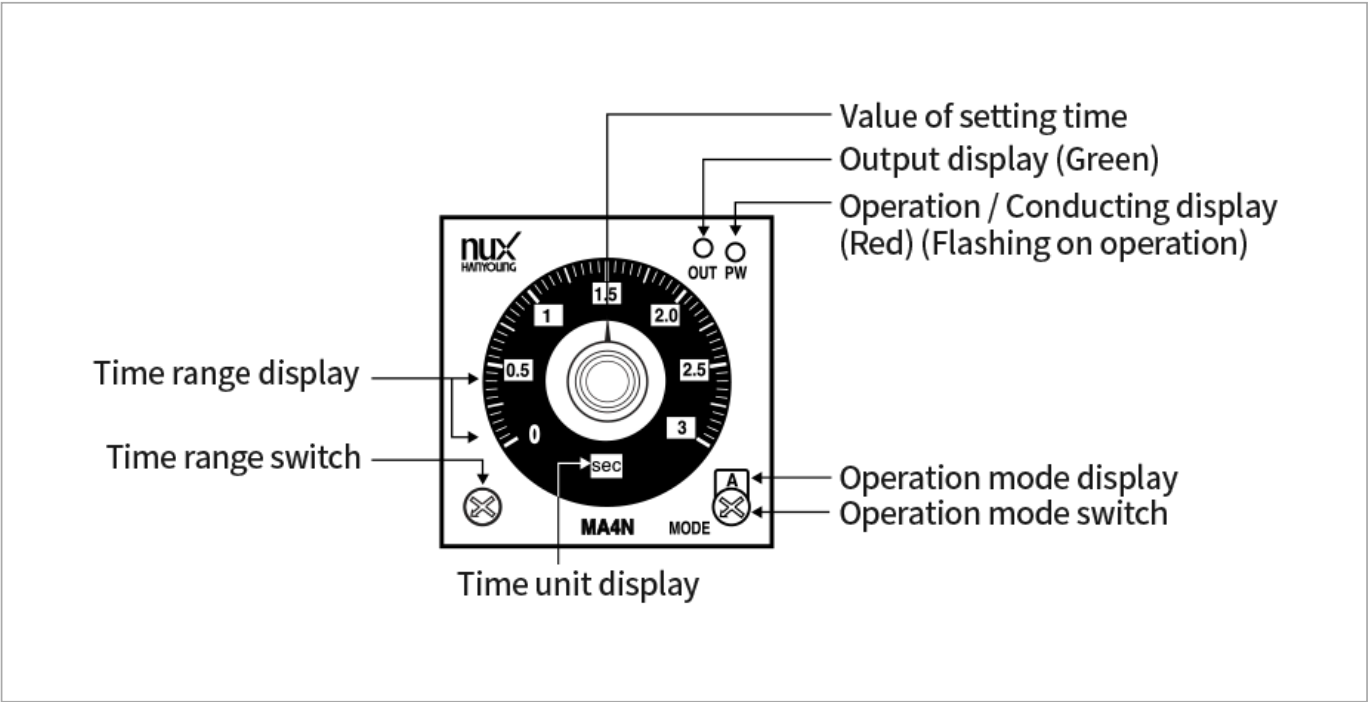
Panel cutout



Time range

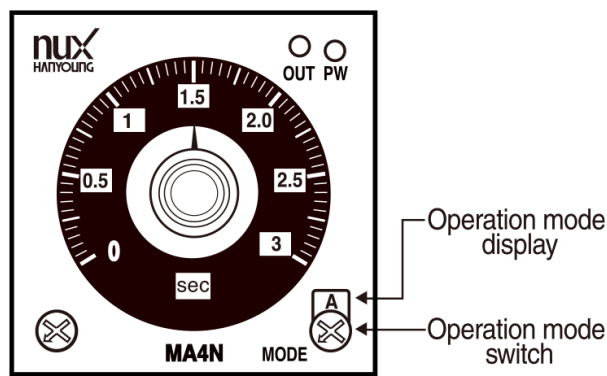
Time unit		sec	min	hrs	x10h
Setting range	1.2	0.12 ~ 1.2			1.2 ~ 12
	3	0.3 ~ 3			3 ~ 30
	12	1.2 ~ 12			12 ~ 120
	30	3 ~ 30			30 ~ 300

Part name



External connection

Please select operation mode by turning the operation mode switch that is in front of panel.
User can select 6 types of operation modes, and operation mode is displayed as A, B, C, D, E, F or A1, B1, C1, D1, E1, F1.



■ Operation mode display

■ MA4N-A, MA4N-B TYPE

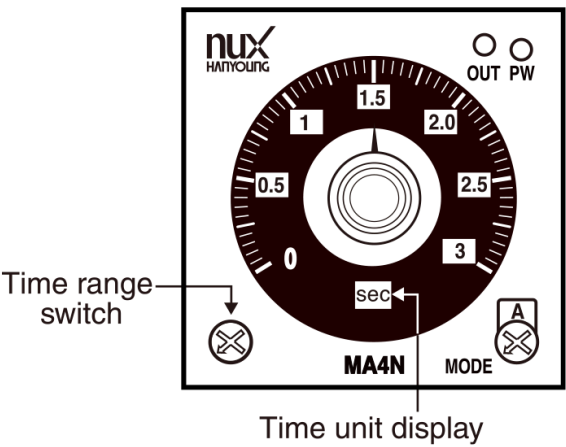
MODE	Function of operation
A	ON DELAY
B	FLICKER OFF START
C	INTERVAL
D	SIGNAL ON/OFF DELAY
E	SIGNAL OFF DELAY
F	FLICKER ON START

■ MA4N-C TYPE

MODE	Function of operation
A1	ON DELAY
B1	ON DELAY1
C1	ON DELAY2
D1	FLICKER OFF START
E1	FLICKER ON START
F1	INTERVAL

■ Selection of time unit

- Please select time by turning the Time range switch that is in front of the panel. User can select 16 types of time ranges, and it is displayed as sec, min, hrs, 10h

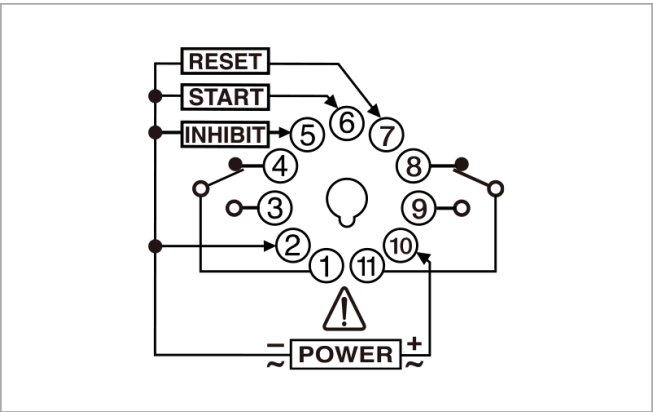


■ Time unit display

Time unit	ime range
sec, min, hrs, 10h	0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2
	0, 0.5, 1, 1.5, 2, 2.5, 3
	0, 2, 4, 6, 8, 10, 12
	0, 5, 10, 15, 20, 25, 30

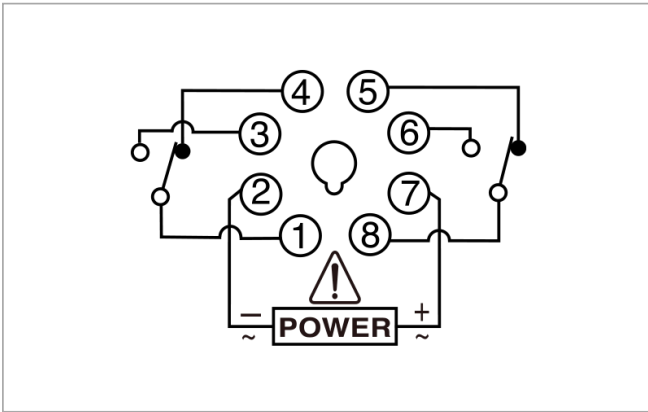
■ Connection diagram

■ MA4N-A / MA4N-B



- MA4N-A : Two relay work as Time limit
- MA4N-B : The relay connected with ①, ③, ④ work as instantaneous operation and the other relays work as time limit.
- Please refer to Timing charts for working of relays

■ MA4N-C



- Two relays in Mode A1 and D1 work as Time limit.
- The relays in Mode B1, C1, E1, F1 connected with ①, ③, ④ work as instantaneous operation, and other relays work as time limit.
- MA4N-C : According to timing charts, relays works as Time limit or Instantaneous.
- Please refer to Timing charts for working of relays.



Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER** Bản quyền nội dung thuộc về công ty **Hanyoung Nux**
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