Analog Timer MA4N

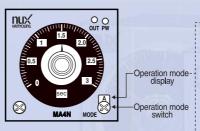


Time range

Max. Time	ime Unit	sec	min	hrs	X10 h	
	1,2	0.12 ~ 1.2			1,2 ~ 12	
Setting	3	0.3 ~ 3			3 ~ 30	
Range	12	1,2 ~ 12			12 ~ 120	
	30	3 ~ 30			30 ~ 300	

- Up grade version of MA4 model
- Apply convenient time set-up mode
- Free power voltages (24-240 V a.c 50/60, 24-240 V d.d)
- Various Time ranges (Total 16 time ranges)
- Various operation charts (Total 6 operation charts)
- A type (Time limit contact 2c), B type (Time limit contact 1c, Instantaneous contact 1c), C type (Time limit contact 2c or Tim limit contact 1c, Instantaneous contact 1c)
- Use Power LED to display status of time process

Selection of Time unit & Operation mode



MA4N -A, MA4N - B TYPE

MODE	Function of operation
Α	ON DELAY
В	FLICKER OFF START
С	INTERVAL
D	SIGNAL ON/OFF DELAY
Е	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					
	MODE A1 B1 C1 D1 E1					



Digital Timer LF4N

- LCD Display
- Up grade version of NF4 model
- Apply convenient time set-up mode
- Free power voltages (24-240 V a.c 50/60, 24-240 V d.d)
- Various Time ranges (Total 10 time ranges)
- Various operation charts (Total 10 operation charts)
- A type (Time limit contact 1C), B type (Time limit contact 1C, Instantaneous contact 1c), C type Time limit contact 2c), D type (Time limit contact 1c)

Display for the elapsed time Display for the status of time process Display for the elapsed time Display for the elapsed time Display for the elapsed time Display for the output-on status Display for the elapsed time (Bar Graph) Selection of operation mode Firms setting (017 ~ 999)

Function of operation chart

FUNCTION			
SIGNAL ON-DELAY			
FLICKER ON START			
SIGNAL ON/OFF DELAY			
SIGNAL OFF DELAY			
INTERVAL			
ONE SHOT & FLICKER			
INTEGRATION			
INTERVAL DELAY			
FLICKER ONE-SHOT			
POWER ON-START			



Function of Time units

Time unit	Time range		
01 s	0.01 s ~ 9.99 s		
0,1 s	0.1 s ~ 99.9 s		
s	1 s ~ 999 s		
0,1 m	0.1 m ~ 99.9 m		
m	1 m ~ 999 m		
0.1 h	0.1 h ~ 99.9 h		
h	1 h ∼ 999 h		
10 h	10 h ~ 9990 h		
S O m O1 s ~ 9 m 59			
M	O h O1 m ~ 9 h 59 m		

Digital Counter / Timers

■ LF4N series LCD Timers (€

Specifications

Model		LF4N-A	LF4N-B	LF4N-C	LF4N-D	
		WINGARCHEY TIMES				Temperature Controllers
Appearance		- (23,				
\	W×H×D (mm)	48.0×48.0×69.5				
	Input signal	Reset, start, inhibit. %LF4N-A and LF4N-D only.				Analog
Input	Non-voltage input	Paragraph level (during transistor ON): residual voltage max. 0.7 V d.c., impedance max. 2 kΩ				Timers
Input	Non-voitage input		Open level (during transistor OF	F): impedance min. 100 kΩ		
	Contact input	Use a contact that can open and close 5 V d.c., 2 µA sufficiently				
	Repetition accuracy	Max. ± 0.01 % ± 0.05 s of set value (power start), max. ± 0.005 % ± 0.03 s of set value (start signal)			value (start signal)	Meters
	Return time	Max. 0.1 s				
Performance	Noise immunity	Square wave noise by noise simulator (1 µs pulse width), ±2 kV (between operation power terminals)				
	Insulation resistance	Min. 100 MΩ (500 V d.c.) conductive terminal - unfilled metal				
	Dielectric strength	2000 V a.c. 60 Hz for 1 min (different live part terminals)				
	Output operation mode	Operating mode 10 types (selection by front digital switch) but LF4N-B, LF4N-C (A mode: POWER ON delay fixed)				
	Time display method	Set by internal UP / Down selection switch				
Function and -	Time range	Time range 10 types (selection by front digital switch)				
output	Set value recognition	Constant recognition (setting can be changed even during energization)				Photo
	Control output -		SPDT (1c), 250 V a.c. 3	A, resisitive load		Sensors
		Time limit 1c	Time limit 1c, instantaneous 1c	Time limit 1c × 2	Time limit 1c	_
	Applicable socket		8-pin socket		11-pin socket	Rotary
Po	Power voltage 24 - 240 V a.c./d.c. 50/60 Hz				- Encoders	
Voltage	oltage fluctuation rate ±10% of power voltage				Thyristor	
Power	240 V a.c.	Approx. 2.5 VA	Approx. 2.	9 VA	Approx. 2.5 VA	Power
onsumption	240 V d.c.	Approx. 1.5 W	Approx. 2.	.1 W	Approx. 1.5 W	Regulators
Ambient temperature & humidity		-10 ~ 55 ℃, 35 ~ 85 % RH (without condensation)				Solid State
Storage temperature		-20 ~ 65 ℃				
Vibra	ation resistance	10 - 55 Hz, double amplitude 0.75 mm, 3 axes each direction, 2 h				Relays
Shock resistance		300 mß, 3 axes each direction each 3 times				Power
Weight		Approx. 110 g			- Supplies	

Suffix code

Surffix Code					Display Lights	
Model	Code	Content				
LF4N-		LCD Timer			Power / Main /	
	А	Time limit 1c	Operating mode (10 types)		Cam Switches	
Types selection	В	Time limit 1c, instantaneous 1c	ON delay output (A mode fixed) 8-pin socket type	8-pin socket type		
	С	Time limit 2c	On delay output (A mode fixed)		Limit	
	D	Time limit 1c	Operating mode (10 types)	11-pin socket type	Switches	
Power voltage		24 - 240 V a.c./d.c. 50/60 Hz				

Foot /
Mono Lever /
Pendant Switches

Combination

Signal Lights

Power Buzzers / Terminal Blocks Fuse Holders / Control Boxes