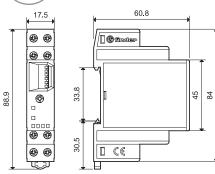
Multi-function and multi-voltage timer

- Complies with EN 45545-2:2013 (protection against fire of materials), EN 61373 (resistance against random vibrations and shock, Category 1, Class B), EN 50155 (resistance to temperature and humidity, T1 class)
- One module 17.5 mm wide housing
- Seven functions (4 with supply start and 3 with control signal)
- Additional Reset function
- Six time ranges from 0.1 s to 10 h
- 35 mm rail (EN 60715) mounting

81.01T Screw terminal





* Short term (10 min) +70°C

81.01T



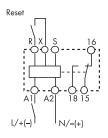
- Multi-voltage (DC non polarized)
- Multi-function

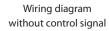
AI: On-delay
DI: Interval

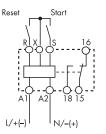
SW: Symmetrical flasher (starting pulse on) **SP:** Symmetrical flasher (starting pulse off) **SP:** Off delay with control size of

BE: Off-delay with control signal **DE:** Interval with control signal on

EEb: Interval with control signal off







Wiring diagram with control signal

in, (110)h
1

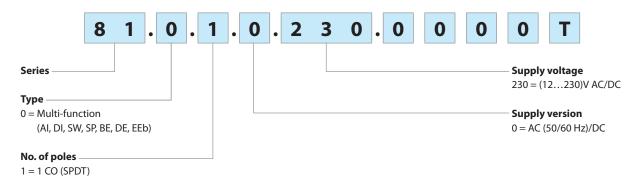
CE EHI @

Approvals (according to type)



Ordering information

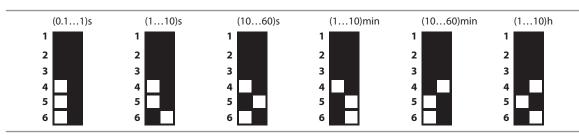
Example: 81 series, multi function timer, 1 CO 16 A - 250 V AC, supply rated at (12...230)V AC/DC.



Technical data

EMC specifications				
Type of test		Reference standard		
Electrostatic discharge	contact discharge	EN 61000-4-2	4 kV	
	air discharge	EN 61000-4-2	8 kV	
Radio-frequency electromagnetic field (80	÷ 1000 MHz)	EN 61000-4-3	10 V/m	
Fast transients (burst) (5-50 ns, 5 kHz) on Su	pply terminals	EN 61000-4-4	4 kV	
Surges (1.2/50 µs) on Supply terminals	common mode	EN 61000-4-5	4 kV	
	differential mode	EN 61000-4-5	4 kV	
Radio-frequency common mode (0.15 ÷ 80	MHz) on Supply terminals	EN 61000-4-6	10 V	
Radiated and conducted emission		EN 55022	class A	
Other data				
Current absorption on signal control (B1)		< 1 mA (S-X)	< 1 mA (R-X)	
Voltage potential on the input terminal R -	X and S -X	Not galvanic separation from the supply voltage on A1 - A2		
Power lost to the environment	without contact current W	1.3		
	with rated current W	3.2		
Screw torque Nm		0.8		
Max. wire size		solid cable	stranded cable	
	mm²	1x6/2x4	1 x 4 / 2 x 2.5	
	AWG	1 x 10 / 2 x 12	1 x 12 / 2 x 14	

Time range setting



NOTE: time range and function must be set before energising the timer.



Functions

= Supply voltage = Signal switch

= Reset

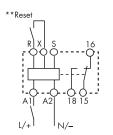


LED	LED	Supply	NO output	Cont	tacts
(green)	(red)	voltage	contact	Open	Closed
		OFF	Open	15 - 18	15 - 16
		ON	Open	15 - 18	15 - 16
		ON	Closed	15 - 16	15 - 18

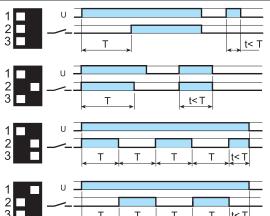
Without control signal = Start via contact in supply line (A1). With control signal = Start via contact into control terminal (X-S).

Wiring diagram

Without control signal

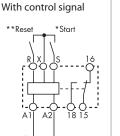


** Connection of the Reset (R-X) is optional



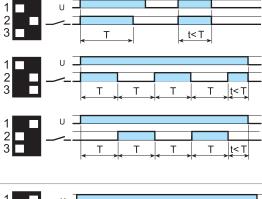
*Start

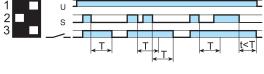
l N/-

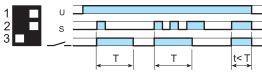


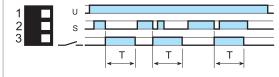
* Terminals R, S & X must not be directly connected to the timer supply voltage, but they should be considered to be at supply voltage potential for the purposes of insulation.

** Connection of the Reset (R-X) is optional









(AI) On-delay.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.

(DI) Interval.

Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.

(SW) Symmetrical flasher (starting pulse on).

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

(SP) Symmetrical flasher (starting pulse off).

Apply power to timer. First transfer of contact occurs after preset time has elapsed. The timer now cycles between OFF and ON as long as power is applied. The ratio is 1:1 (time on = time off).

(BE) Off-delay with control signal.

Power is permenently applied to the timer. The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the preset delay, after which time the output contacts reset.

(DE) Interval with control signal on.

Power is permenently applied to the timer.

On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

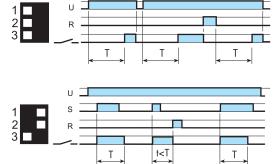
(EEb) Interval with control signal off.

Power is permenently applied to the timer.

On opening of the Signal Switch (S) the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

RESET function (R)

For each and every function and time range, the timer is immediately reset when the reset switch is closed.



Supply START; ON delay function

Closing the external reset switch immediately resets the timer. Opening the reset switch re-initiates the timing function.

Example:

Control signal; ON pulse function.

Closing the external reset switch terminates the interval time and resets the timer. To re-start, it is necessary to open the reset switch, before closing the control signal contact.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Timers category:

Click to view products by Finder manufacturer:

Other Similar products are found below:

H3DS-GL AC24-230/DC24-48 H5S-WFB2D THR2U-110A 81506944 H7AN-RT6M AC100-240 600DT-CU 1SVR730100R3100 H3Y-2
AC24 10S 81503028 722-0001 732-0023 80.01.0.240.0000T 81.01.0.230.0000T 88.92.0.240.0000 12.A4.8.230.0010 85.03.0.024.0000
80.61.0.240.0000T LTR10 H3C-R H3CR-A8-301 24-48AC/12-48DC H3CR-A8E 24-48AC/DC H3CR-F8 100-240AC/100-125DC H3CR-FN 100-240AC/100-125DC H3DK-G 24-230AC/DC H3DK-HBL AC/DC24-48 H3DK-M1A DC12 H3DT-A1 24-240AC/DC LT4H-AC24V LT4HL8-DC24V LT4HW8-AC240V LT4HW-AC240V LT4HW-AC240VS LT4HW-AC24VS LT4HW-DC24V LT4HW-DC24VS
31L48AP 31L48TPM240 RC302 RC312 RE48ACV12MW REV-201M RG ETR4-11-A ETR4-51-A AT78041 AT78051 ATC180041
TMM1 TMP TMST