

Electronic Timers

One Shot XOT



DESCRIPTION

One shot asymmetrical timer with 4 time ranges. The time range is selectable via the front mounted rotary switch. The pulse and pause time ranges cover 0.6sec.-60min. or 0.6min.-60hrs. Pulse and pause time are individually adjustable on the timer front. The timer can directly be connected to the supply voltage in the range of 10.5-265V AC/DC. Single or double relay output with LED indication of energized relay. Intermittent flashing of LED indicating timing period (over 6 sec.). Versions available for DIN rail or 11-pole plug-in mounting.

OPERATION

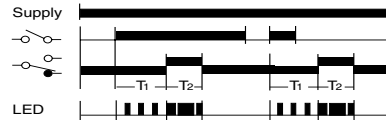
One-shot asymmetrical without control switch.

A jumper must be connected between 5 and 7 (B1 and B2). When supply voltage is connected and the pause time has elapsed, the output relay is energized. The relay remains energized through the pulse period and de-energize when the pulse period has elapsed. This is one time sequence (one shot).



One-shot asymmetrical with control switch.

The timer must be connected to supply permanently. When the switch is closed, the pause timing period starts. When the preset pause time has elapsed, the output relay is energized. The relay remains energized through the pulse period and de-energize when the pulse period has elapsed. To start a one-shot sequence again, the control switch must be opened and closed again, after the relay is de-energized.



VERSIONS/ORDERING CODES

Type: One shot asymmetrical.	XOT- XOT- S 1 . LH
Mounting: 11 pole plug-in. DIN rail.	S D
Output relay: SPDT. DPDT ¹⁾ .	1 2
Timing range (pause/pulse): 0.6sec-60min./0.6sec-60min. 0.6sec-60min./0.6min-60hours. 0.6min-60hours. /0.6sec-60min. 0.6min-60hours. /0.6min-60hours.HH	LH HL

TECHNICAL DATA

Time ranges:	Code	Time ranges
		0.6-6sec. 6-60sec. 0.6-6min. 6-60min.
	H	0.6-6min. 6-60min. 0.6-6hrs. 6-60hrs.

Full linearity between the ranges is provided i.e. an adjustment made to a specific time in seconds will give the same time in minutes just by operating the range switch.

Timer accuracy:

Repeating accuracy: $\pm 0.5\%$ at constant conditions.
Setting accuracy: $\pm 10\%$.
Temperature drift: Max. 0.15% per °C.

Reset time:

Max. 100msec.

Output relay:

SPDT or DPDT. ¹⁾
Load (cos ϕ =1):
D1/S1: Max. 8A/240V AC ⁵⁾
Min. 10mA/24VDC
S2: Max. 5A/240V AC ⁵⁾
Min. 100mA/24VDC

Contact material:

D1/S1: AgNi 0,15
S2: AgCdO

Frequency: Max. 1000 operations per hour at max. load.
Mechanical life time: Min. 10×10^6 operations.
Electrical life time: Min. 100,000 operations at max. load.
Operate time: Max. 50msec.
Release time: Max. 20msec.

Mounting:

S1/S2: 11-pole plug-in.
D1: Directly on DIN rail TS35 (EN50022).

Terminals: (D1 only)

Max. conductor size 4 mm².
Screw type terminals with self-lifting clamps shrouded in accordance to VDE0106 (finger and back of hand protection).

Supply voltage:

10.5-265V AC/DC

Mains frequency:

40-440Hz.

Consumption:

0.5-3VA.

Cable lengths:

Supply voltage: Max. 50 m.

Protection:

S1/S2: IP40.
D1: IP20.

EMC:

Conforming to EN 50081-1/EN 50082-2.

Isolation:

Supply to relay contacts: 2kV AC according to EN 60950 class I.

Ambient temperature:

-20 to +55°C.

Housing:

Black Noryl SE-1.

Weight:

Typically 80 g.

NOTES/REMARKS

- 1) Double output relay only available in S2 versions.
- 2) Terminals 2 and 7 (A1 & B2) are internally connected.
- 3) Terminals 5 and 7 (B1 & B2) are not galvanically isolated from the supply terminals 2 and 10 (A1 & A2), the control switch must therefore be approved for the actual supply voltage.
- 4) Terminals 5 and 6 are internally connected.
- 5) When inductive or DC loads are switched the load capacity of the output relay is reduced, see the output load diagrams on fig. 1 and 2. When inductive loads are switched, it is recommended to use a RC-network, see accessories on page 130, to protect the relay contacts.

WIRING DIAGRAMS

Supply voltage above 50V.

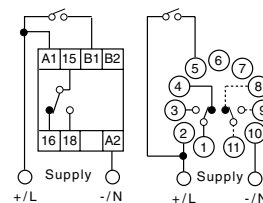
The installation (all terminals) must be carried out according to the safety regulations! The control input and the supply input must be connected to the same circuit (phase and main switch). The output relay may only be used in circuits made according to the safety regulations.

Supply voltage below 50V.

The output relay may NOT be used for voltages above 50V unless the entire supply circuit is made according to the safety regulations.

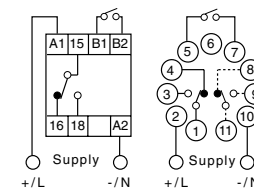
Function - with control switch.

Alternative 1



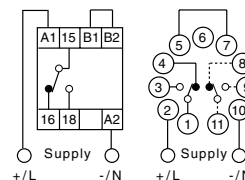
Note 1-4

Alternative 2



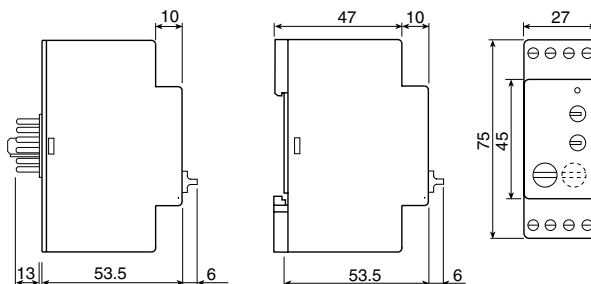
Note 1-4

Function - Without control switch.



Note 1-4

MECHANICAL DIMENSIONS



OUTPUT LOAD DIAGRAMS

Fig. 1

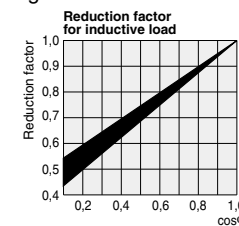


Fig. 2

