

Delay Timers

Delay timer devices are used to control a variety of processes where the requirement is for switching circuits on, off or delaying the on or off switching for a pre-set period of time. Typical device types are...

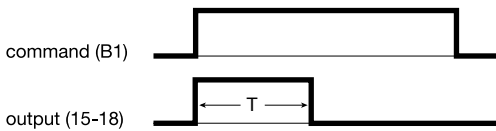
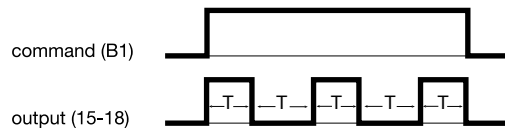
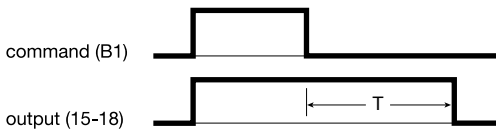
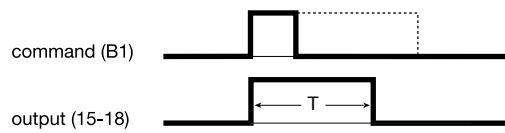
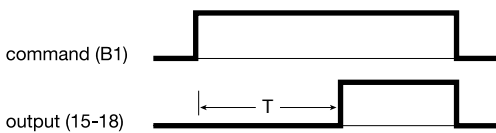
- Delay on - intended to delay the starting or switching of a circuit for a set period of time following the command signal e.g. to delay the starting of motor loads where a large number of motors are to be started by the same switch to reduce the effects of the starting currents.
- Delay off - intended to delay the stopping or switching off of a circuit for a set period of time following the removal of the command signal e.g. to overrun an extractor following the switching off of a process that creates fumes.
- Adjustable time on - intended to switch on for a set period, the command signal must remain on throughout the set period e.g. to switch on two sets of heaters with one set (the boost) switching off after the set period.
- Impulse timer - intended to switch on for a set period, the command signal length is not important e.g. to boost a time clock controlled circuit such as a water storage heater.
- Symmetrical timer - intended to toggle a circuit on and off in regular time patterns e.g. to run an extractor intermittently.

Multifunction Timer - 6 Individual Functions

- A = Timer.
- B = Delay off (output relay opens either at end of command or after set time period - whichever is shorter).
- C = Delay off.
- D = Delay on.
- E = Delay on (output relay closes either at end of command or after set time period - whichever is shorter).
- F = Symmetrical timer.

On selection - contact permanently closed
Off selection - contact permanently open

- Output relay open - with no command
- ▄▄▄▄▄▄▄▄ Output relay open - with command signal running
- ▀▀▀▀▀▀▀▀ Output relay closed - with command signal running
- ▄▄▄▄▄▄▄▄ Output relay close - with command signal removed
- ▀▀▀▀▀▀▀▀ Output relay closed (EZN005)

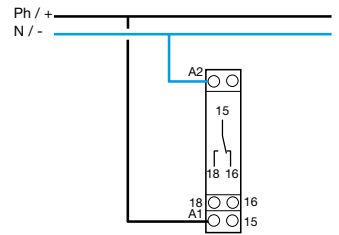


Technical Specifications

EZN001, EZN002, EZN003, EZN004, EZN005, EZN006t	
Electrical Characteristics	
Supply Voltage	24-28 Vdc 12-48 Vdc (+10%) Terminals A1 & A2 12-230 Vac (+10%) Terminals A3 & A2
Output	1 Volt Free C/O Contact
Life Expectancy	
Max Load AC 1	8A / 230V~ 50,000 Cycles
Incandescent	450W~ 500,000 Cycles
Fluorescent Non Comp.	600W~ 50,000 Cycles
Inductive Load 0.6pf	5A / 230V~ 100,000 Cycles
Min Power	
AC	100mA at 230V
DC	100mA at 12V
Galvanic Isolation	2kV
Standard / Norm	BS EN 60669-2-1
Functional Characteristics	
Timer Range	0.1s - 10 hours
Min. Command Period	
AC	50ms
DC	30ms
Operating Temperature	
Working	-20°C to +50°C
Storage	-40°C to +50°C
Connection Capacity	
Flexible	1 to 6mm ²
Rigid	1.5 to 10mm ²

Functional characteristics EZN001, EZN003, EZN005, EZN006 (functions D,E,F)

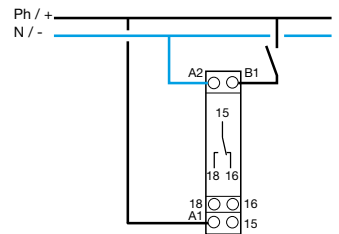
CD : Command.
O : Output.
T : Time delay.



EZN002, EZN004, EZN006 (functions A,B,C)

indicator light (for versions with NO contact).

ON
OFF



Time Delay Breakers	1 sec to 1 hour	0.1 min to 10 hour	0.1 sec to 10 mins	0.2 mins to 20 hours
Ranges	1 sec to 10 secs 0.1 min to 1 min 1 min to 10 min 0.1 hour to 1 hour	0.1 min to 1 min 1 min to 10 min 0.1 hour to 1 hour 1 hour to 10 hour	0.1 secs to 1 sec 1 second to 10 secs 0.1 min to 1 min 1 min to 10 mins	0.2 min to 2 min 2 min to 20 min 0.2 hour to 2 hour 2 hour to 20 hour