



# Plug in Cyclic Timers

# CDO

- Analogue Set
- Continuous cycle
- 2 Pole Changeover Relay
- 8 Amp Contacts
- Six standard time ranges
- All standard supply voltages
- Standard 8 or 11 pin plug in base



## DESCRIPTION

These electronics timers are compatible with industry standard plug in connections and are available with a wide range of time and supply voltage options . Designed for use in many basic timing applications they feature a very high immunity to electrical interference and can be used with confidence in new installations as well as replacements in existing systems.

Available with a 2 changeover relay output and can have differing on and off ranges, i.e.

20 seconds off with 20 minutes on time.

The timers are housed in a 48 x 48 DIN standard plastic enclosure that as well as fitting in a standard socket can be panel mounted using the clamp supplied.

The required time period is set by turning knobs against the scales on the top of the device.

## MODE OF OPERATION

### CDO - Continuous cycle:

On application of the supply voltage, the OFF timing period starts and the relay remains un-energised. At the end of the set OFF time period the relay energises and remains so until the ON time period has elapsed when the relay de-energised and a new OFF period starts. The timer continues cycling until the power is removed

## Timing Diagram



## OPTIONS

**Instantaneous Contacts:** A set of changeover contact that operate whenever the power is applied and are independent of the timed contacts.

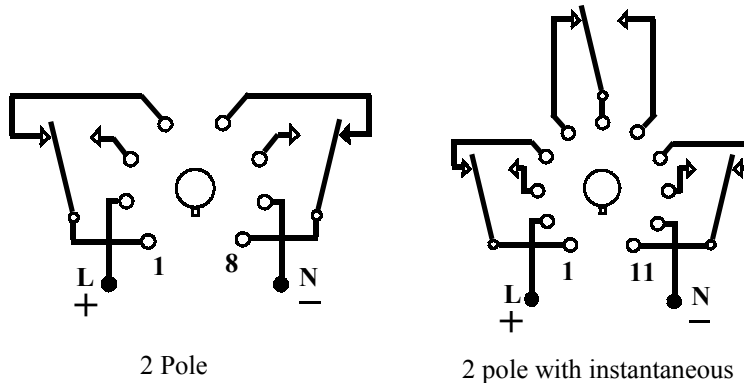
**Factory Fixed time:** The OFF and ON cycle times can be factory preset to any precise figure. There is no external time adjustment control knobs to be tampered with



**SPECIFICATION**

- Time Ranges:** 1. 0.1—2.0 seconds, 2. 1—20 seconds, 3. 10—200 seconds, 4. 1—20 minutes, 5. 10—200 minutes, 6. 1—20 hours
- Repeat Accuracy:** Cycle to cycle repeat better than 1%
- Supply Voltages :** 12. 12 VAC/DC, 24. 24 VAC/DC, 48. 48 VAC/DC, 115. 115 VAC, 230. 230 VAC
- Supply Tolerance:** +15 % , - 10%
- Power Consumption:** 3VA or 2W
- Indicators:** Red LED for power and Green LED for relay On
- Output relay:** 8 Amp (resistive) @250 VAC
- Temperature:** -10 deg C to + 50 deg C
- Dimensions:** 48 x 48 x 110 (87 behind bezel) (Panel cut out 44 x 44)

**Connections**



**Order code:** **Standard** {CDO} - {Off time range} - {On time range} - {voltage}  
**With instantaneous** {ICDO} - {Off time range} - {On time range} - {voltage}

**Example** CDO.2.3.230 (20 seconds OFF, 200 seconds ON, 230VAC)  
 CDO.1.5.24 (2 seconds OFF, 200 minutes ON, 24 VAC/DC)  
 ICDO.2.3.230 (20 seconds OFF, 200 seconds ON, 230VAC )  
 (with instantaneous contacts)

**Specials:** Also available are versions with factory set time period or special time ranges,  
 Solid state outputs (open collector transistor, PNP or NPN types)  
 Compatible with 2 wire AC proximity switches

Please call sales for more information

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