

Programmable Counter/Timer - IBC



BCH ELECTRIC LIMITED



Programmable Counter/Timer - IBC

Features

- Selectable Counter, Chronometer or Timer Functions
- Up Counter, Down Counter, Up / Down Counter
- Up Chronometer, Down Chronometer
- Timer with On Delay, Interval, Off Delay, Single shot, and Cyclic Functions with Programmable time base
- Two Presets with SPDT relays and solid state open collector outputs
- Selectable Decimal Point
- EEPROM Data Backup

Electrical Life

7 Segment 6 Digit 8mm High LCD Display

SPECIFICATIONS Power Supply 115/ 230VAC ± 10%, 12/ 24VDC -10%to +15% Selectable Supply Frequency 50/60 Hz **Power Consumption** 6VA for AC, 2.4 W for 24 VDC, 1.2 W for 12 VDC **Counting Range** 0 - 999999 Counts 30Hz / 800Hz Selectable Count Speed Mode of Operation Single cycle with or without overflow, Repeat cycle with adjustable length of signal from 0.1 to 1 sec Reset to zero or reset to preset selectable in counter mode Time Ranges 4 time ranges - 0 to 99 h 59 min 59 sec, 0.00 to 9999.99 min, 0.0 to 9h 59 min 59.9 sec, 0.00 to 99 min 59.99 sec **Time Accuracy** +/- 0.05% +/- 20 ms Inputs Proximity Switch, Potential Free Contact, Voltage Input - Low Level : 0 - 2V, High Level : 4 - 30V 12VDC 50mA Sensor Supply Memory Retention 10 Years Preset Two Set Points, each Separately Programmable through keypad Reset On front Panel and External provided on rear terminal Minimum signal duration 20ms Inhibit Input For interruption of counting provided on rear terminal 2 Relays SPDT 7A @250VAC resistive load, Output Transistor Open Collector 30V / 40mA, NPN **Operating Temperature** 0° C to + 50°C Storage Temperature -15°C to +60°C Size 48mm x 48mm x 107.3mm (WxHxD), 60mm x 60mm front panel Mounting Panel Mounting Connections Screw Terminals Weight 275g Machanical Life 1 X 107 Operations

1X 10⁵ Operations with full load



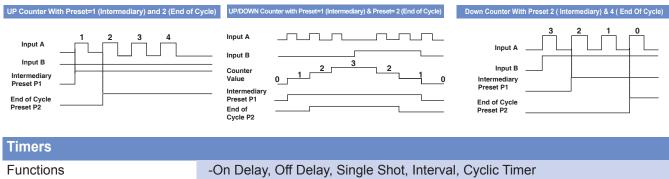
| Ordering Information | | | |
|----------------------|---|--|--|
| IBC00 # 00 | | | |
| "#" Voltage Code | | | |
| 230V/115V AC | 1 | | |
| 24V/12V DC | 2 | | |
| | | | |

- Counter Operation
- 1. UP Counter
- 2. Down Counter

UP/Down Counter Total Range: 0-999999

3.

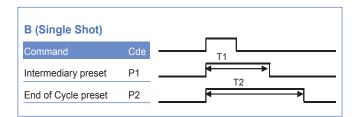
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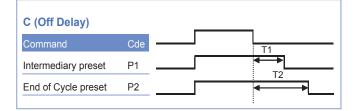


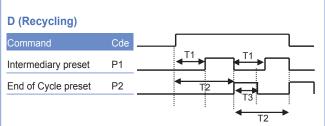
| Functions | -On Delay, Off Delay, Single Shot, Interval, Cyclic Timer |
|--------------|---|
| Timer Ranges | 0 to 99H 59 Min 59 Sec |
| | 0.00 to 9999.99 Min |
| | 0.0 to 9H 59 Min 59.9 Sec |
| | 0.00 to 99 Min 59.99 Sec. |

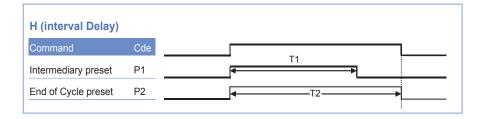
Timing Diagrams

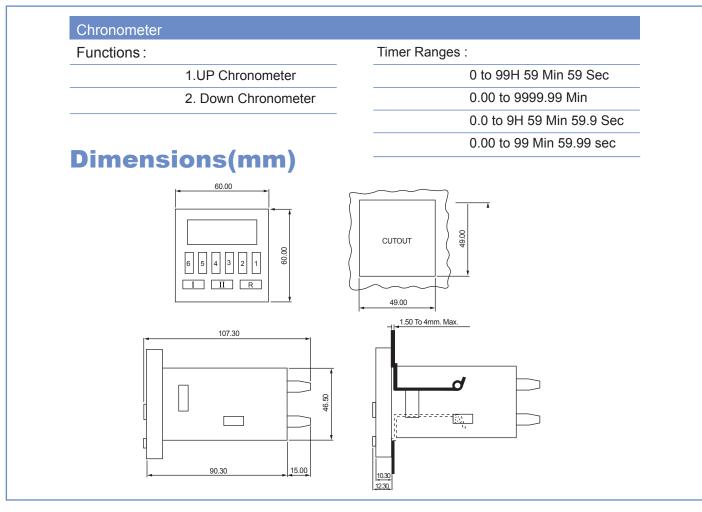
| A (On Delay) | | |
|---------------------|-----|--|
| Command | Cde | |
| Intermediary preset | P1 | |
| End of Cycle preset | P2 | |
| | | |











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