

- Fully programmable
- 2 time periods with 2 relay outputs
- Easy-to-set push-wheel switch
- External or power-on starting modes
- HOLD input
- Maximum time delay up to 999 min
- 4 operating modes
- Plug-in to 8-pin socket
- 48x48 mm DIN-sized front panel

#### DESCRIPTION

BDT03 timer is a low-cost microprocessor-based device for time sequence control with 2 adjustable time periods forming a time cycle, 3 sub-ranges, and 4 different timing modes. The push-wheel switch (BCD) on the front panel enables easy setting of the period duration and the 3-digit display indicates the current time, the parameters, or the operating mode. All modes of operation and parameters are user-programmable via front-panel keyboard. BDT03 is also equipped with 2 contact inputs for external start and hold and 2 output relays with programmable action for timing control of processes through switching electrical actuators on and off. The extended features of BDT03 simplify programming and process monitoring and make the timer a convenient solution to a wide range of timing related problems.

#### TECHNICAL SPECIFICATIONS

**Construction** : Panel design to standard DIN or DIN-rail  
**Housing** : Plastic  
**Isolation** : Input to output to supply  
**Indication** : 3 x LED, 3-digit LED, 10mm high  
**Keyboard** : 2 membrane keys

#### INPUT

**Type** : Contact (NO)  
**External START/HOLD** : Extern closing contacts  
**Programming** : Trough keyboard

#### MODES

**Ranges** : 0-99,9 s to 999 s or 999 min  
**First period (t1)** : After start  
**Second period (t2)** : Depends on operation mode  
**Range selection** : Programmable  
**Time selection** : Programmable  
**Parameter setting** : Trough keyboard  
**Value adjustment** : By Push-wheel switch

#### OUTPUT

**Relay** : 250VAC 5A, NO/NC contact  
**SSR** : 1A/250VAC  
**MOS gate** : 0;1A/60V, optically isolated  
**Transistor gate** : Open collector NPN 40V/40mA  
**Extern SSR** : 5-24VDC/30mA  
**Relay function** : K1 activates alternatively with t1 and t2  
                             K2 activates for total cycle time t1 + t2



#### INSTALLATION

**Supply** : 90 to 250VAC/DC or 12 to 24VAC/DC  
**Ambient temp** : -10 to +65°C, RH 0 till 85%  
**Mounting** : Panel with bracket or 8-pin socket  
**Protection class** : IP54 front (IP65 option), IP20 rear  
**Dimension** : B48 x H48x D95mm (103 w/socket)  
**Weight** : 250g with bracket

#### PERFORMANCE

**Accuracy error** : < ±0.01% FS  
**Display** : 3-digit LED x 10mm  
                             2 LEDs for output state  
**Keyboard** : 2 membrane keys  
**Power consumption** : 2 VA  
**EMC** : EN 50081-1, EN 50082-2, EN 61010-1  
                             73/23/EEC & 89/336/EEC



#### ORDER INFORMATION

<b>BDT12</b>	
<b>SUPPLY</b>	<b>OUTPUT</b>
A 230VAC	X None
B 115VAC	C Relay
C 90-250V	D SSR
P 12-24V	E NPN
Q 12-24V(isolated)	J Extern SSR
R 24VAC	M Mos gate (isolated)