

# Deep Sea Electronics Plc

## 200 Series TIMERS

### MULTI ATTEMPT TIMING (MA)

#### DESCRIPTION

The multi attempt timer (MA) has been designed for automatic start engine control or applications requiring programs of 1 to 9 attempts before the second relay changes state. Status indication is via LED indication.

- Available in 8 & 11 pin configuration
- Large choice of time ranges
- 1 pole 5 amp
- 12 or 24 v DC

#### SPECIFICATIONS

##### SUPPLY VOLTAGES:

DC MODELS: 12v (9.5 to 17v)  
24v (18 to 32v)

TIMER ACCURACY: +10% - 0% of full scale

REPEAT ACCURACY: 1% of range

TIMER RANGE: 0 - 30 secs  
Others on request

MINIMUM TIME: 50 msecs or 1% of range

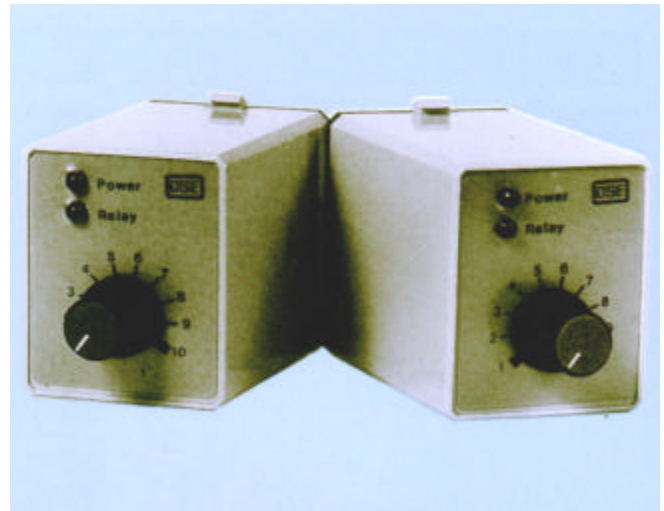
RESET TIME: typically 40msec

OPERATIONAL CURRENT: approx 80 milli amps

PROTECTION: DC timers are reverse polarity protected, all units are protected from short term supply born transients.

RELAY CONTACTS: 1 pole changeover 15 amp  
resistive at 240v AC

OPERATING TEMPERATURE: -10°C TO +60°C

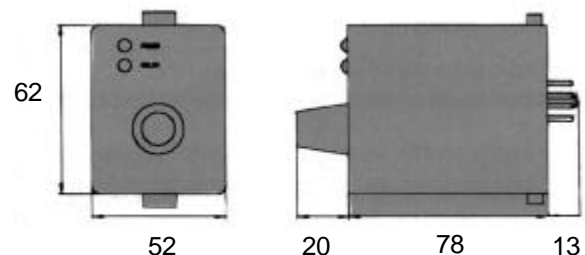


#### OPERATION

On application of a continuous supply voltage, relay A LED illuminates and the contacts of relay A change state commencing the programmed cycling sequence. During this sequence, relay B contacts remain de-energised. When the timer has reached its programmed no. of attempts, relay A will de-energise and remain in this state. Relay B indicator will illuminate and the contacts will change state and remain operated to give a fail to start output. Reset is via removal of the supply voltage.

#### CASE DIMENSIONS

Dimensions in mm



#### ORDERING INFORMATION

Refer to section 1

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