



**Space Saving 22.5 mm wide multifunction timer with digital setting**



Save interior panel space, simplify wiring and improve performance with the Eagle Signal brand B90D DIN rail timer. The unit mounts on a standard 35mm DIN rail, and with multiple functions and time ranges enables you to standardize on one device to fulfill all your behind the panel timing needs.

- Space saving 22.5 mm wide DIN rail mount design
- Field selectable choice of 8 timing modes
- Multiple time ranges allow settings from 0.2 seconds to 999 hrs.
- Digital Setting accuracy of  $\pm 0.5\%$
- LCD display provides field programmability, progress indication and operation status
- Lithium battery provides long life and eliminates the need for external power
- SPDT contacts rated for up to 8 amps
- Single model accepts a wide range (12 V to 260 V) of AC and DC start signals
- UL recognized, CE compliant

The B90D offers improved performance via digital setting accuracy (0.5% compared to 10% on some analog set DIN rail timers) and eliminates fiddling with pots for "fine adjustment". The LCD display provides for simple timer setup, and provides progress indication and output status that can be helpful in troubleshooting/maintenance.

Standard On-Delay, Off Delay, Interval, and One Shot Operation are field selectable, as are a variety of repeat cycle modes that allow for asymmetrical cycling and the ability to start with either the On or Off function.

Internal 3 volt lithium batteries, with 10 year life, eliminate the need to provide and wire an external power source for this device.

A wide range of DC start signals makes the B90D compatible for use with most sourcing prox and photo sensors, while AC input capability enables the unit to replace many plug-in TDRs and older electro-mechanical timers. All inputs are optically isolated and programmable for level or edge trigger operation. An 8 amp SPDT relay output can be used for direct switching of loads.

## SPECIFICATIONS

### Inputs:

**Type:** 5 to 260 DC, PNP; 12 to 260 VAC

**Input Impedance:** 10K $\Omega$  for 5 to 48 Volts, 180 K $\Omega$  for 48 to 260 Volts

**Min. Pulse:** 20 ms

**Triggering:** Edge or Level field programmable

### Outputs:

**Type:** SPDT Relay

**Rating:** 8 amp @ 260 VAC, 5 amp @ 30 VDC

**Expected Life:** 100,000 operations @ 8 amp resistive load, 1,000,000 operations @ 2 amps resistive load

### Physical:

**Dimensions:** 22.5 mm wide x 93mm high x 100 mm deep

**Mounting:** Spring clip connection to 35 mm DIN rail

**Wiring:** Front accessible screw terminals

**Display:** Black on silver LCD, 3 numeric digits, time base, operation mode and output status indicators

### Operation:

**Power Source:** Two non-replaceable 3V lithium batteries, 10 years expected life

**Time Ranges:** 0.2 to 99.9, 1 to 999 secs. 0.01 to 9.99, 0.1 to 99.9, 1 to 999 min. 0.01 to 9.99, 0.1 to 99.9, 1 to 999 hrs.

**Operating Modes:** On-Delay, Off-Delay, Interval, Symmetrical Repeat Cycle (On or Off start), Asymmetrical Repeat Cycle (On or Off start), On-Delay Interval

**Setting Accuracy:**  $\pm 0.5\%$  of set time, or +50ms -20ms, whichever is greater

**Repeat Accuracy:**  $\pm 0.3\%$  of set time

### Environmental:

**Operating Temperature:** -10°C to +60°C

**Storage Temperature:** -20°C to +70°C

**Approvals:** UL recognized, CE compliant

### Ordering Information

Description	Model
Din-Rail Mount Timer	B90D-500

