



B856 Series Multifunction Timer

An excellent value in its class, the B856 Series features a compact 1/16 DIN package, precise digital setting, versatile functionality, and a straightforward button-per-digit interface.

It can be easily programmed to perform any standard timing operation: On-Delay, Off-Delay, Interval, or Repeat Cycle. A unique On-Delay/Interval Mode can, in many cases, perform the function of two separate timers. Output is via DPDT relay contacts. Five selectable time ranges and a programmable decimal point provide preset times ranging from 0.01 seconds to 9999 hours. A standard model features a timed DPDT contact output while another model includes separate timed and instantaneous SPDT contacts. All are rated for 5 Amp loads.

Simplicity of operation is maintained while still providing a high level of functionality. All programming is done through the front panel, with an intuitive button-per-digit keypad that makes entry of preset times quick and easy. A crisp dual line LCD display lets the operator readily view elapsed or remaining cycle time as well as the preset value. Prominent annunciators indicate information such as the time range and the status of the input and outputs.



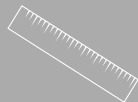
- Button-per-digit preset entry simplifies setup and operation
- LCD display indicates both Process Time and Preset Value
- Accepts 24 - 240 VAC or 24 VDC
- Designed to meet IEC 801 level 4 noise immunity standards for increased reliability
- Unique On-Delay/Interval mode lets one unit do the work of two in many applications
- Industry standard socket connection
- Programmable security levels
- UL, CUL recognized, CE compliant
- IEC IP65 rated front panel for use in washdown environments



TIME



COUNT



MEASURE

8:43

DISPLAY



B856 Series Multifunction LCD Timer

SPECIFICATIONS

START & RESET	NPN or Dry Contact
OUTPUTS	B856-500: Timed DPDT - 5 amp; B856-501 & B856-511: Timed SPDT - 5 amp; B856-511: Instantaneous SPDT - 5 amp
ACTIVATION TIME	15 ms maximum
DIMENSIONS	48mm x 48mm, 81mm deep
MOUNTING	Panel Mounting in 45 x 45 cutout or DIN rail
WIRING CONNECTION	B856-501: Via 8 pin plug-in socket; B856-500 & B856-511: 11 pin plug-in socket
SUPPLY VOLTAGE	24 - 240 VAC 50/60Hz or 24 VDC
POWER CONSUMPTION	50 VA @ 240 VAC
TIME RANGES	Hours, Minutes, Seconds, H:M, M:S
RESOLUTION	Selectable from XXXX to XX.XX for Hours, Minutes and Seconds
OPERATING MODES	On-Delay, Off-Delay, Interval 1, Interval 2, Repeat, On-Delay/Interval
REPEAT ACCURACY	± 0.03%
ELECTRICAL SERVICE LIFE	100,000 cycles at full load
MECHANICAL SERVICE LIFE	10 million cycles at min. load
FRONT PANEL RATING	IEC IP65
OPERATING TEMPERATURE	B856-500: 0° to 60° C B856-501: 0° to 55° C B856-511: 0° to 50° C
STORAGE TEMPERATURE	-40° to 90° C
HUMIDITY	5% to 95% RH non-condensing
WEIGHT	100g (3.5 oz.)
APPROVALS	B856-500 & B856-501: UL and CUL recognized, CE marked B856-511: UL and CUL recognized

ORDERING INFORMATION

Standard Models

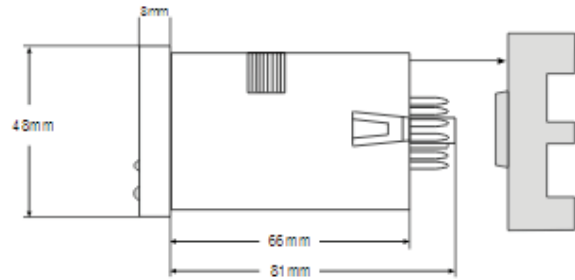
B856-500	Multi-Function (11 Pin) Timer
B856-501	Multi-Function (8 Pin) Timer
B856-511	Multi-Function (11 Pin) Timer

Accessories

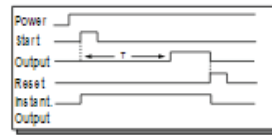
60SR3P06	For use with B856-500 & B856-511. 11 Pin Socket
PBT-03172	For use with B856-500 & B856-511. 11 Pin Socket - Outward Facing Terminals

60SR2P06	For use with B856-501. 8 Pin Socket
PBT-03155	For use with B856-501. 8 Pin Socket - Outward Facing Terminals

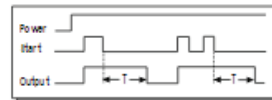
DIMENSIONS



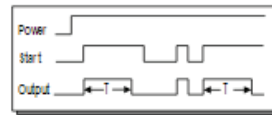
OPERATING MODES



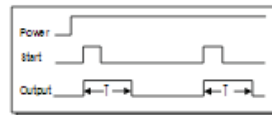
On-Delay
Timing begins on the leading edge of the start input. The output will activate at the completion of the preset time (T) and will remain active until the reset signal is applied or power is interrupted.* For B856-511, the instantaneous output will activate upon the start signal and will remain active until the reset signal is applied or power is interrupted.*



Off-Delay
The output is activated at the leading edge of the start signal. Timing begins on the trailing edge. The output will remain active until the preset time (T) has elapsed or power is interrupted.* Reapplying the start signal before (T) has elapsed will reset the time value. The reset input is not used.



Interval 1
On the leading of the start input, the output is activated and timing begins. The output will remain active until the preset time (T) has elapsed or power is interrupted.* Removal of the start signal will also cause the output to be deactivated and the time value reset. The reset input is not used.



Interval 2
On the leading of the start input, the output is activated and timing begins. The output will remain active until the preset time (T) has elapsed or power is interrupted.* Reapplying the start signal has no effect unless the cycle has completed.



Repeat Cycle
Timing begins on the leading edge of the start input. A cycle is initiated where the output will be OFF for the preset time (T), then ON for the preset time. This cycle will continue until a reset signal is applied or power is interrupted.* The unit can also be programmed for the timing sequence to begin with an ON cycle.



Delay/Interval
The delay cycle begins upon application of the start signal. The output will activate at the completion of the preset time (T1). Upon activation of the output, the Interval cycle will begin. The output will be deactivated at the end of the Interval time (T2). T1 is the primary preset value. T2 is settable from 0.1 to 999.9 seconds. The timing sequence and output can also be reset through the reset input or interruption of power.*

* The Power Reset parameter can be set so that a timing sequence will not be reset upon power interruption but instead continue on when power is restored.