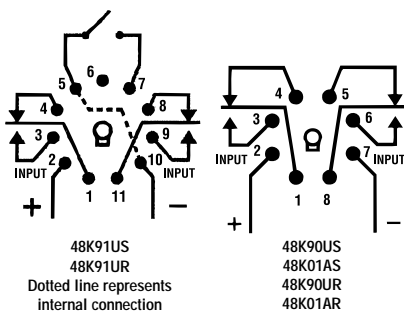
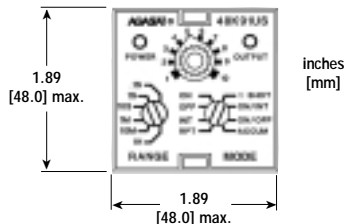
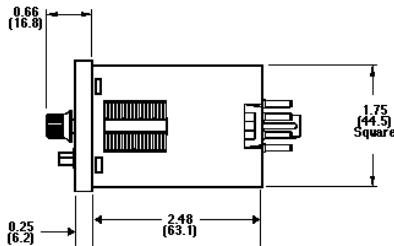


Programmable Timing Relays – Series 48K International 1/16 DIN timers



48K91US



DESIGN FEATURES

- ◆ International 1/16 DIN housing
- ◆ Socket or panel mounting
- ◆ Up to 8 user-selectable operating modes
- ◆ Timing from 0.1 sec to 10 hours
- ◆ Universal voltage (24-240VAC; 24-125VDC)
- ◆ 10A DPDT output contacts
- ◆ ANSI C37.90 Transient Protection (Universal models)
- ◆ Two LED indicators on Universal models
- ◆ Mounting cut outs to retrofit competitive timers

SPECIFICATIONS

Operating Modes: User-selectable timing modes

48K91: On-Delay One Shot
Off-Delay Repeat Cycle
Interval On-Delay/Off-Delay
On/Interval Accumulating On

48K90: On-Delay Repeat Cycle
Interval On/Interval

48K01: On-Delay

Rotary selector switch (shown) or recessed knob screwdriver adjustment option.

Timing Adjustment: Potentiometer adjustment with linear reference calibrations. Recessed dial option for tamper-proof requirements.

Timing Ranges: Six user-selectable timing ranges

0.1 - 1 sec. 1 - 10 min.
1 - 10 sec. 10 - 100 min.
10 - 100 sec. 1 - 10 hr.

Rotary selector switch (shown) or recessed knob/screwdriver adjustment option.

Accuracy: Repeat Accuracy: $\pm 0.5\% \pm 20\text{msec}$
Overall Accuracy: $\pm 1\% \pm 20\text{msec}$

Reset Time (All Modes): 25 msec

Relay Release Time: 50 msec

Relay Operate Time: 50 msec

Operating Voltage:

48K90U, 48K91U: 24-240VAC, 50/60 Hz;
24-125VDC

48K01A: 120VAC, 50/60 Hz

Transient Protection:

48K90U, 48K91U: Meets ANSI C37.90
Transient Specification

48K01A: 2500V for 1msec.

Output: DPDT Relay; 10 Amps Resistive, @
30VDC, 120/240VAC

Life: Electrical: 100,000 operations at
rated resistive load

Mechanical: 10,000,000 operations

Dielectric: 1500VAC between coil, contacts, and case.

Temperature Range:

Operating: -13°F to $+140^{\circ}\text{F}$ (-25°C to $+60^{\circ}\text{C}$)

Storage: -13°F to $+185^{\circ}\text{F}$ (-25°C to $+85^{\circ}\text{C}$)

Mounting: Panel or socket mounted.

Power Consumption: 2 watts max.

Front Panel Rating: NEMA 1

Indicating LEDs:

48K90, 48K91: Power On LED
Output Contacts LED*

48K01: Output Contacts LED

* Typically blinks when timing, On when relay is energized. Subject to operating mode.

Approximate Net Weight: 5 ozs. (142 grams)

ORDERING INFORMATION

48K	91	U	S
Series 48K - 48mm Knob adjustable (0.1 sec - 10 hr)	Operating Mode 01 - On-Delay (8 pin, 120VAC only) 90 - Multi (8 pin, Universal voltage only) On-Delay Repeat Cycle Interval On/Interval 91 - Multi (11 pin, Universal voltage only) On-Delay Repeat Cycle Off-Delay On/Off-Delay Interval On/Interval One Shot Accumulating On	Operating Voltage A - 120VAC 50/60 Hz U - Universal (24-240VAC, 50/60 Hz 24-125VDC)	Options S - Standard R - Recessed (Mode, range and timing adjustment dials require screwdriver adjustment)

Possible configurations: 48K01AS, 48K90US, 48K91US,
48K01AR, 48K90UR, 48K91UR

Sockets Available
8 pin octal: BDS8SS
11 pin octal: BDS11SS
See Page 7.

