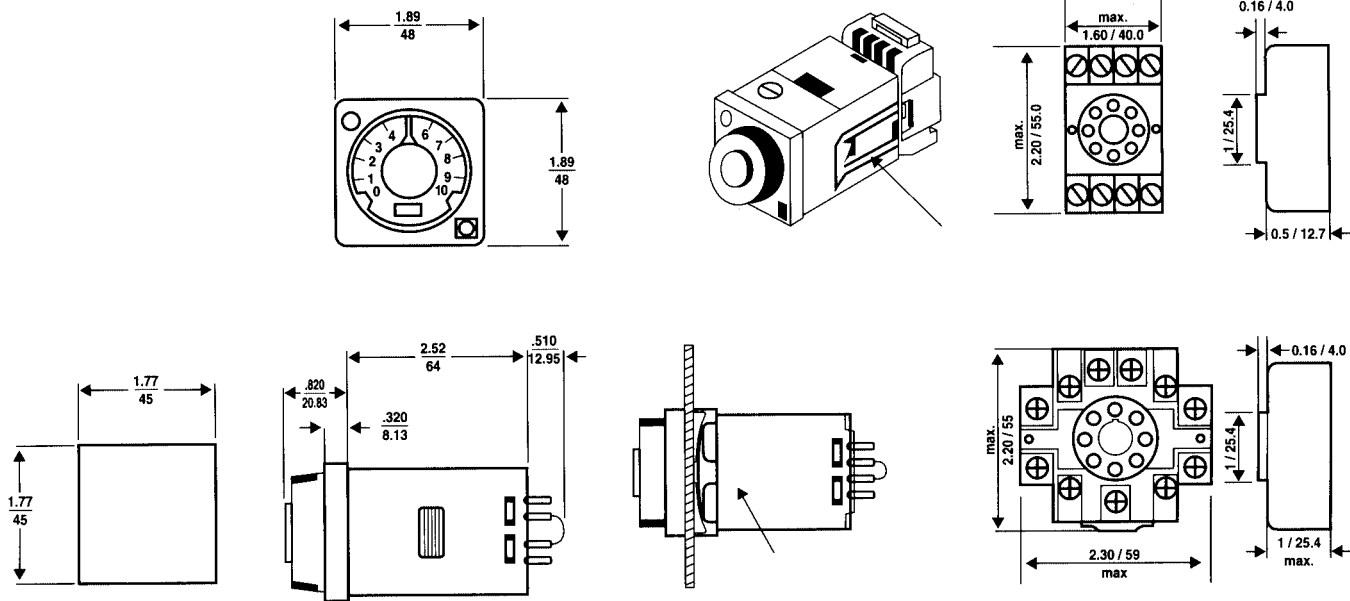


417B True Off Delay TDR

INSTALLATION
INSTRUCTIONS
DECEMBER, 2000
0417-000-01-00



OPERATION

When power is applied to the timer, the relay energizes and the indicating LED turns on. Timing starts when power is removed, and the LED turns off. The output relay remains energized until the end of the cycle, or by connecting terminals 1 and 4 when using the remote reset model.

SETTING THE RANGE

Refer to the drawing. Using a small screwdriver inserted into the adjusting slot as shown (fig. 1), rotate the range switch. The selected range will appear through the window of the dial face.

PANEL MOUNTING

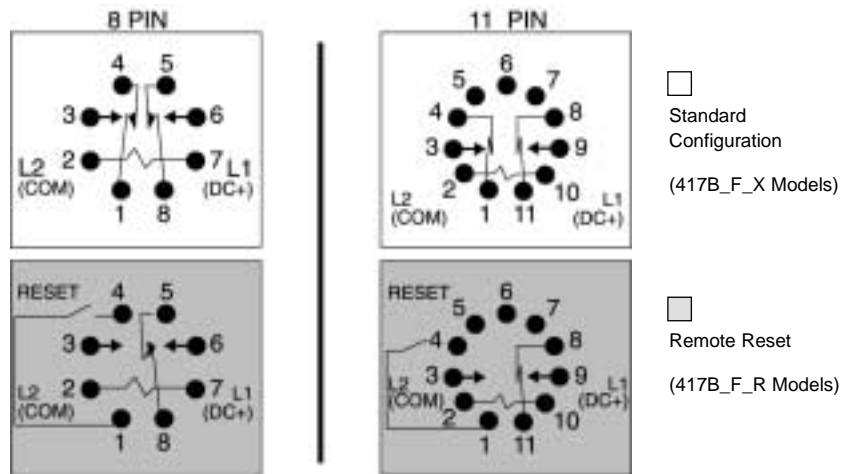
To panel mount, cut a 1-25/32" square cutout (1.77 inches).

1. Insert the 417B through the front of the panel, with the plug going through the cutout first.
2. While holding the 417B in place, push the mounting bracket over the unit and snap into place as shown in the dimensional drawing.

3. When using the 417B in a panel-mounted configuration, an optional socket with rear facing terminals can be used. 8 pin: 0000-825-87-00 11 pin: 0000-825-88-00



TERMINAL WIRING



Bottom view of TDR

INSTALLATION INSTRUCTIONS—417B True Off Delay TDR

SPECIFICATIONS

RANGE

Model 417B100...(10 sec, 1 min, 10 min)
Model 417B500...(5 sec, 0.5 min, 5 min)

DIAL ACCURACY

+/- 10% of range

REPEAT ACCURACY

+/- 5% of average

POWER ON TIME

1.0 sec. minimum

REMOTE RESET

50 ms minimum

TEMPERATURE RATING

-18 to 60 C

0 to 140 F

LOAD RELAY

Type: DPDT, Standard Models

SPDT, Remote Reset Models

Life: 10,000,000 operations (no load)

Contact Rating: 10 AMPS Resistive @ 250 VAC

30 VDC, or 1/6 HP @ 120 VAC

NOISE IMMUNITY

Showering Arc per NEMA 2-230, the 417 will withstand a voltage surge of 4500 volts for 50 micro seconds without damage.

POWER REQUIREMENTS

24 TO 240 VAC & 24 VDC, 50 or 60 Hz,

(+10%, -20%) 24 to 240 VAC

(+20%, -15%) 24 VDC

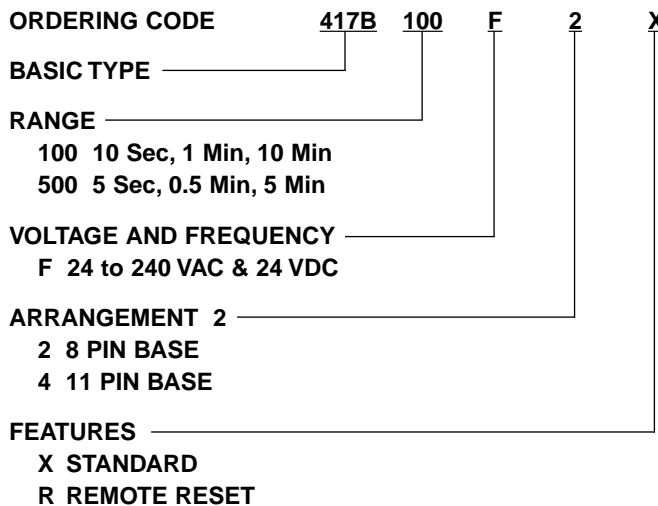
DC MAXIMUM RIPPLE AT 60Hz -5%

HOUSING

48 mm (1/16 DIN) housing is watertight when panel mounted.

WEIGHT

5 oz. (140g)



ACCESSORY PARTS

8 PIN

0000-825-85-00-8

Pin surface/DIN rail socket

0000-825-87-00-8

Pin socket w/rear facing terminals

0319-261-45-00-Plug-on-socket kit (8-pin)

0405-320-02-00-Panel mounting bracket

0407-025-13-00-Hold down clips for 82585 & 82586 sockets

11 PIN

0000-825-86-00-11 Pin surface/DIN rail socket

0000-825-88-00-11

Pin socket w/rear facing terminals

0314-260-07-00-Plug-on socket kit (11-pin)

0405-320-02-00-Panel mounting bracket

0407-025-13-00-Hold down clips for 82585 & 82586 sockets

A WORD ABOUT SAFETY

Most of ATC's products are designed for general use and not for specific applications. Because of this, we usually are not aware of how they eventually will be used. However, they are frequently employed in controlling automatic machinery or processes.

Although ATC makes product of high reliability, every product, given enough time, can be expected to fail. Statistically, devices can fail after a short period of time or a long period of time or anything in between. In essentially all cases, failure means (1) failure to provide a logic signal or power to an electrical load when it should or (2) the providing of such a signal or power when it should be absent. Less often, failure means failure to meet some other specification. But, in all cases, it means to do something unwanted or unexpected.

No ATC product is fail-safe in and of itself.

The photoelectric controls that we manufacture and/or market are for general industrial application and are not

designed as a primary optical safety device and are not fail-safe in and of themselves.

Since the failure of automatic machinery or processes can create hazardous conditions for personnel or property, whatever the definition of failure might be, it is necessary to consider the consequences of failure and design of the application in which the ATC product is used so that failure will not create a hazard to personnel or property. The design must insure that any failure will result in a fail-safe condition and there will be no danger to personnel and/or property involved in the use of the product.

Designs incorporating controls of any kind should be carefully considered to provide for their eventual failure.

IMPORTANT NOTICE

Our recommendations, if any, for the use of this product are based on tests believed to be reliable. The greatest care is exercised in the selection of our raw materials and in our manufacturing operations. However, since the use of this

product is beyond the control of the manufacturer, no guarantee or warranty, express or implied is made as to such use or effects incidental to such use, handling or possession or the results to be obtained, whether in accordance with the directions or claimed so to be. The manufacturer expressly disclaims responsibility therefore. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing laws and/or patents covering any material or use.

Warranties of Sale, disclaimer thereof and limitations of liability are covered exclusively by Automatic Timing and Controls' printed warranty statement for the controls. These instructions do not expand, reduce, modify or alter Automatic Timing and Controls' warranty statement and no warranty or remedy in favor of a customer or any other person arises out of these instructions.



AUTOMATIC TIMING AND CONTROLS