



ABBERFIELD

INDUSTRIES

PTY LTD ABN 61 000 112 569

CT10MD *series*

COIN OPERATED TIME SWITCHES

**CT10MD DESIGNATES: COIN TIMER SERIES 10
ELECTRONICALLY OPERATED & MULTI-DENOMINATIONAL**

Series 10 refers to those units using separate moulded interior mechanism, with an all enclosing metal cover incorporating top coin entry.

TECHNICAL & SERVICE DETAILS

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INSTALLATION & WIRING INSTRUCTIONS FOR COIN OPERATED TIME SWITCH

COIN OPERATED TIME SWITCHES

SERIES: **CT10-MD**

Accepts different coin denominations to accumulate credit. Each 10¢ coin unit equals the time set on the thumb wheel switches.

INSTALLATION

This equipment should be secured firmly to reduce risk of unauthorised entry. Do not install equipment so that key side is closer than 150mm to any adjoining unit or to other obstruction. Also an allowance of 50 mm between hinge side of cover and any obstruction should be made. This allows room for removal of cover. Do not over-tighten interior mounting screws as this may distort the coin track.

COIN CLEARANCE

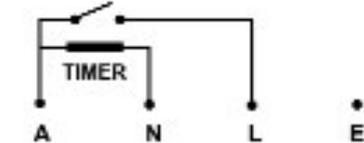
When opening equipment for clearance, depress the lock side of cover to release tension on lock mechanism. Avoid over filling of coin tray, this may cause the equipment to "shut down".

KEY NUMBER

The key number Imprinted on the key should be recorded. Replacement keys may be available on request.

ELECTRICAL

CT10-MD coin timers are wired to switch the active wire only. After installation, check that active and neutral wires have not been reversed. Double insulation leads should be used and firmly secured with the cable clamp. If installed as a low voltage coin timer, use a large conductor size to minimise voltage drops.



A - active
N - Neutral
L - 25A Load
E - Earth

Model CT10-MDPR is 35A rated.
Model CT10-MD is 25A rated.



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OPERATING INSTRUCTIONS

Five thumb wheel switches are provided in the lower right hand corner of the mechanism.

CHARGE RATE

The first two thumb wheels set the minimum price to be charged from 10¢ to \$9.90 in 10¢ increments. This is the value that must be inserted before the load will switch on. Any number of extra coins can be inserted.

CHARGE TIME

The three switches to the right set the operating time in minutes per 10¢ value inserted. This allows adjustment from 10¢ value for 0.1 minute to 10¢ value for 99.9 minutes.

Example:

MINIMUM CHARGE In 10 cent increments	MINUTES PER 10¢ VALUE	SWITCH SETTINGS MINUTES PER 10¢ VALUE		
		TENS	UNITS	1/10's
10¢ = 01				
20¢ = 02	1 =	0	1	0
30¢ = 03	5 =	0	5	0
40¢ = 04	10 =	1	0	0
\$1 = 10	30 =	3	0	0
\$1.50 = 15	60 =	6	0	0
\$2 = 20	99 =	9	9	0
etc.				

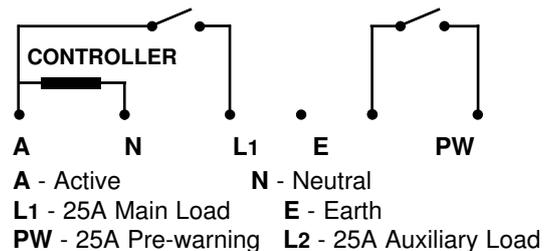
switches

switches

The above label is inside the cover of all CT10MD Coin Operated Time Switches

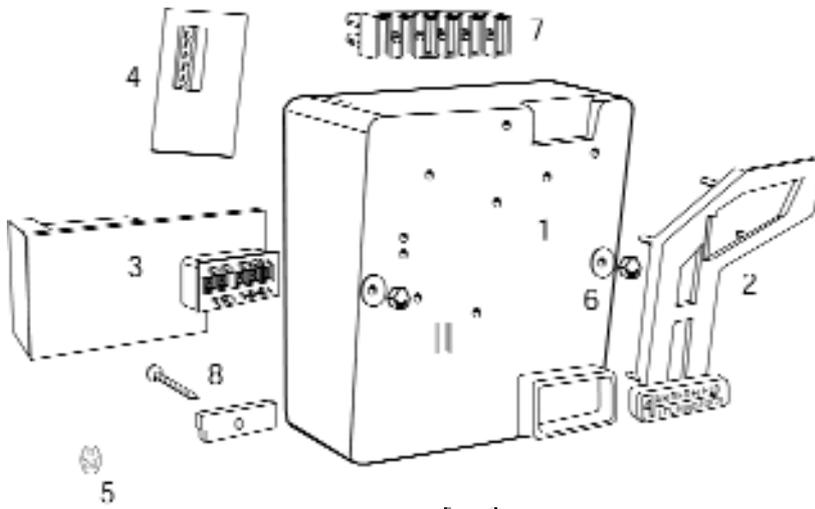
FLOODLIGHT CONTROL

If the model number includes a suffix FL (CT10MF-FL / CT10MD-FL) the coin timer will have been converted for control of lights needing a cool down period between operations. A pre-warning circuit is set for 6 seconds **ON**, 4 minutes before turning off the main supply. The operating time can be extended by inserting more coins. When the output is **OFF**, it cannot be re-operated for 10 minutes. The main circuit is 25 amp rated but large lights would be controlled by an external contactor.



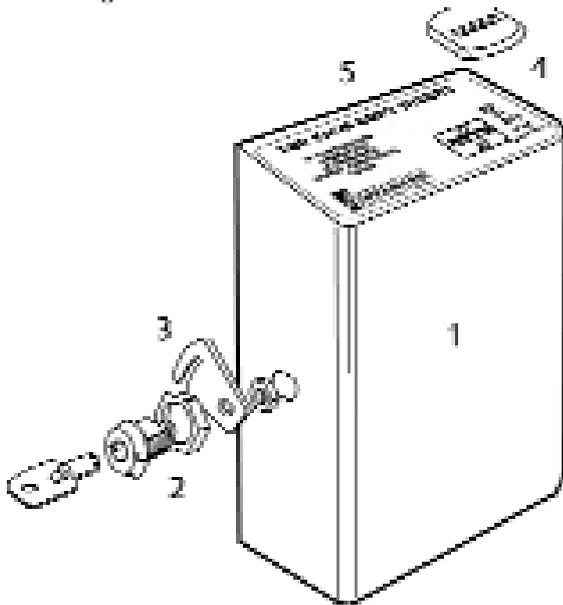
A - Active
N - Neutral
L1 - 25A Main Load
E - Earth
PW - 25A Pre-warning
L2 - 25A Auxiliary Load

For floodlight control coin time switches the above label is also added.



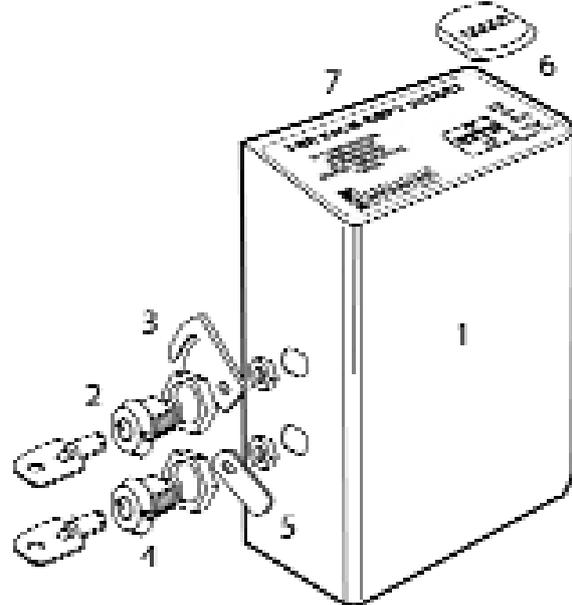
CT10MD SERIES INTERIOR

1. CT10MD Interior moulding.
2. Coin track.
3. Control board.
4. Interface board.
5. Small push on nut.
(7 per set)
6. 3/16" Whit. acorn nut.
(2 per set)
7. Terminal block.
8. Cable clamp and thread cutting screw.



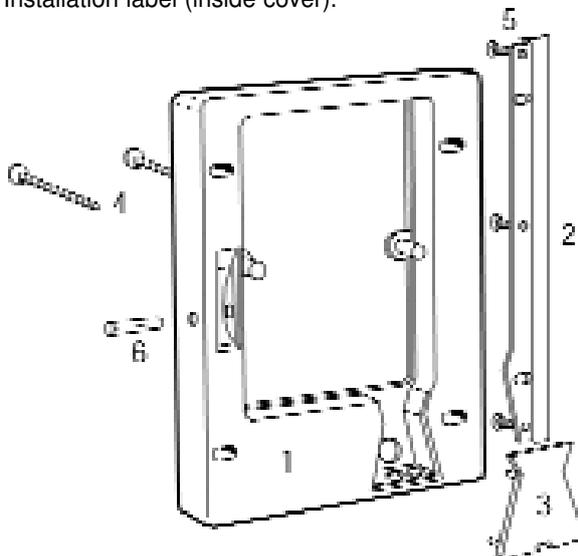
CT10MD SERIES COVER

1. Cover.
2. Lock assembly.
3. Lock cam.
4. Escutcheon and two M3 nuts (various coins and tokens).
5. Instruction label.
6. Installation label (inside cover).



CT10MD SERIES COVER WITH OPTIONAL BY-PASS

1. Cover (standard colour dark grey).
2. Lock assembly.
3. Lock cam.
4. Key by-pass lock.
5. Key by-pass cam.
6. Escutcheon and two M3 nuts (various coins and tokens).
7. Instruction label.
8. Installation label (inside cover).



CT10MD SERIES BACKPLATE ASSEMBLY

1. Base moulding.
2. Hinge plate.
3. Cable dead front.
4. Interior screws
(2 1/4" x 3/16th" Whitworth).
5. Hinge plate screws
(3/16th" x 1/2" thread cutting).
6. Locking pin (3/16th" x 3/4").

COVER

The cover is designed to have some 'spring' in the hinge. This means that when closing the cover, slight resistance is felt just at the end of its travel. This is intended to stop the cover being loose and 'rattling'. A loose cover may suggest inferior security and is an invitation to vandalism. Also this tension 'loads' the lock assembly, making it more difficult for would-be lock pickers.

The cover overlaps the moulded back plate to give excellent splash protection, rated at IP5.5

KEYS

To maximise internal security no records are kept of the key numbers used by Abberfield Technology's customers. When deliveries are made, all units in each order should have the same key number. This key number is unlikely to have been supplied on earlier deliveries as several dozen key numbers are in use. The lock manufacturers have designated these numbers for supply to Abberfield Industries only.

Therefore the opening of these coin operated time switches by other keys is highly unlikely. If a key is lost it is to be hoped that the customer has recorded the number (imprinted on the key, not on the lock) so that replacements can be supplied. As the equipment is designed to exclude forceful entry the loss of a key can cause great difficulties.

SERVICE

Service to this equipment should only be carried out by a qualified electrician or the manufacturers.

GUARANTEE

This equipment is guaranteed against faulty manufacture or component failure as per standard terms and conditions of sale PROVIDING it is installed correctly and not subject to abuse.

CT10MD VARIATIONS

FLOODLIGHT TIMING

In the lower right hand corner of the internal mechanism are three, ten position thumb-wheel switches. These are used to set the operating time for each coin and are calibrated in minutes. Anytime between 1 minute and 999 minutes can be dialled.

ADJUSTABLE CHARGE RATE

The amount of time given for each coin is adjusted, as explained under Floodlight Timing. The value of coins needed to START the timing process can also be controlled. Two thumb-wheels are used to set the MINIMUM CHARGE to anything between 1 and 99 coins. Only when that number of coins have been inserted will the floodlights switch on, but additional coins will give proportional increase e.g. number of coins '5' - time per coin 6 minutes. The floodlights do not come on until the fifth coin is inserted. The main timed period will be 30 minutes (6 minutes x 5 coins). If one more coin is inserted at any time DURING the timed period, six more minutes will be incremented. Any number of coins may be added.

PRE-WARNING

The factory setting is to give a warning of pending power disconnection 4 minutes before the main lights turn off. Pre-warning switch contacts will operate for 5 seconds, used to control a customer supplied external alarm. In addition an internal alarm will sound for this period.

Alternate pre-warning sequences are available on request.

BY-PASS SWITCH

An external key operated by-pass switch can be fitted to permit operations of equipment without coins. Alternatively an internal by-pass switch can be supplied and the locked cover prevents unauthorised use.

TOKENS

This unit can operate on a token as well as 10c, 20 cent, \$1.00 and \$2.00 coins.

COIN COUNTER

An impulse counter can be fitted to record the number of coins inserted.

HOUSING COLOUR

Special colours are available for the outer casing on request.

STAINLESS COVER

Ideal for particularly wet environments.

SECURITY PACKAGE

For problem sites, a security package is available. This includes a heavier gauge steel cover, lock mounted in a reinforced surround and a metal backing plate. Also supplied are mounting loxins with 6mm bolts and washers.



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