



ABBERFIELD

INDUSTRIES

PTY LTD ABN 61 000 112 569

COIN
FLOODLIGHT
CONTROL



floodlight

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COMMON FEATURES



10 series

MODEL CT10-MF-FL

The unit is an electronically controlled Coin Operated Time switch similar to the standard CT10 coin timers but with other specific features. It is a self contained unit including coin validation, timing and coin storage sections.

PRINCIPLE OF OPERATION

High intensity lamps are commonly used on playing fields, tennis courts, marinas, swimming pools, barbecue, park lands etc., where large areas require illumination. They suffer one problem in that when turned off they should be allowed to cool down before being turned on again. Failure to do so may shorten their life. Considerable expense is involved in installing, maintaining and running these lights and much care should be taken in supervising their use. This Abberfield Floodlight Model Coin Timer has been designed especially for that purpose. It controls the lights so that they are only on when needed, gives a warning of pending disconnection and preventing re-operation until the lights have cooled down.

During the cool down period for the main lights, a second circuit is provided which can be used to operate lesser auxiliary lighting, rather than plunge the area into darkness.

APPLICATION RANGE

MODEL	DESCRIPTION
CT10-FL	Single denomination coin/controller and housing.
CT10-MD-FL	Multi denomination coin/controller and housing.
CT20-FL	Single denomination coin/controller, various housing supplied separately.
CT22-MD-FL	Multi denomination coin/controller, various housing supplied separately.
add MLL (Multi Light Level) to any model number	Includes a feature to switch various light levels and vary the charge rate accordingly.

SECURITY

For maximum security, the cover of the timer is completely seam welded from heavy gauge steel. The cover surrounds the entire body of the timer with the edges flush to the wall, making it difficult to gain unauthorised entry. The lock is fitted on the side of the timer, making it more tamper proof than if fitted on the front.

MECHANICAL

The cover has a sloping top, incorporating the coin entry slot. This permits easier reading of the instruction label and prevents objects being placed on top of the timer. A durable electrostatically sprayed finish is applied to the outer casing. The standard colour is Almond Beige. Special colours are available on request.

- **Dimensions: 245mm H x 200mm W x 90mm D**
- **Weight: 2.5 kilos**



ELECTRICAL

Main and auxiliary switch contacts, plus the pre-warning contacts, are 25 amp rated.

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.

AUXILIARY LIGHT TIMING

This is the period during which coins inserted will not restart the floodlights. It is set internally and experience suggests a cool-down period of 10 minutes is adequate. Unless other instructions are received, the unit will be set to 10 minutes. Field changes can be made by following instructions from the factory.

floodlight

ADJUSTABLE CHARGE RATE

The amount of time given for each coin is adjusted, as explained under Floodlight Timing.

The number 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 will 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.



SECURE

- Fully seam welded steel cover.
- Radial pin lock.
- Anti manipulation features, coin on string detection etc.

SAFE

- Doubly insulated plastic internals.

SIMPLE

- Adjustable time 1 to 999 minutes.
- Can be set for a minimum charge, from 1 to 99 coins to start the timed period.
- Power interruption protection.
- Optional time remaining display.
- Key by-pass feature.

**Multi-denominational
MODEL CT10-MD-FL**

Identical to the CT10-MF-FL EXCEPT that the coin timer operates on more than one coin denomination.

10 cent, 20 cent, \$1-00 and \$2-00 coins can be inserted into the same coin entrance and give a time period equal to the value of coins inserted. The thumb wheel switches set the time per 10 cent value inserted.

Coin Or Token Operated



Token back



Token front

Either standard Abberfield tokens or made to order with customers embossed details.

Industry Standard Housings

There are many ways of mounting floodlighting control equipment, most detailed in this brochure, but there are now three main formats

- **Surface mount**
- **Through Wall Mounting**
- **Free Standing**

Surface mounting is the 10 Series housing, usually inside a clubhouse.



Free Standing equipment is usually the 1000 or 2000 Series extreme vandal proof cabinets often mounted away from buildings, nearer to the playing area.



Through Wall Mounting allows coin / token insertion in the public space outside the building but coin clearance inside the secure building.



ALTERNATIVE HOUSINGS 10 SERIES FLOOD LIGHT CONTROLLERS

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.

TOKEN OPERATION

CT10-MF-FL

Equipment is normally operated by coins but units can be supplied to operate by a special token. The label on the timer then reads 'FOR OPERATION INSERT TOKEN'. A variety of stock tokens can be supplied and special tokens with customers embossing can be produced.

CT10-MD-FL

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

COIN COUNTER

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

TIME REMAINING DISPLAY

As an optional extra this feature can be included. A 4 digit display then shows the time remaining through a clear lens on the top label.

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 heavier gauge steel cover, 10 disc lock mounted in a reinforced surround and a metal backing plate. Also supplied are mounting loxins with 1/4" bolts and washers.



HIGH SECURITY COVER

Ultimate in high security with mini safe lock and 3 mm thick steel plate cabinet.

WEATHER HOOD

Provides protection from rain, simply installed by bolting between timer and wall.



Can be supplied in stainless steel if required.



WEATHER SHIELD ON STAND

Provides excellent weather protection. The height is internally adjustable.

20 & 22 series and housing options

Series 20 & 22 are physically interchangeable into a wide range of housings.

MODEL CT20-MF-FL

All of the operational features of the CT10-MF-FL are provided, However the CT20-MF-FL is an open construction allowing fitting to either a customer supplied housing or to one of the many Abberfield standard housings.

TIME REMAINING DISPLAY (OPTIONAL)

Separately mounted display can be added.

- **Dimensions:**
91mm height (H) x 78mm wide (W)



CT20-MF-FL
without undersize coin return

MODEL CT22-FL

Again all of the standard functions are included and the time remaining display comes as standard.



CT20-MF-FL
with undersize coin return

20 & 22 SERIES *housings*

MODEL WM-RE *(Industry standard)*

High security units for mounting into a wall. Coin entrance is on one side of the wall and cash collection on the other.

(Front cast and screen printing optional).

- **WM-RE dimensions: 375mm H x 40mm W x 195mm expandable to 250mm D.**
- **WM-RE with fascia dimensions: 395mm H x 260mm W x 195mm expandable to 250mm D.**



Model WM-RE with fascia



Model AO

MODEL AO

Includes coin box and housing for any electronic coin timer. These housings are part of a larger range designed to suit varied applications. Details on application.

- **Dimensions:
300mm H x 75mm W x 180mm D**

PANEL MOUNT PM - 20/22 SERIES

Mounting to cabinet or machine.
AO housing with surround.

- **Dimensions:
350mm H x 125mm W x 180mm D**
- **Dimensions for through the wall mounting / cash drawer: 300mm H x 75mm W x 180mm D**



Model WM-RE



Model PM - 20/22 Series



*Special housing with 4
CT20MFFL Token
Operated Time Switches*

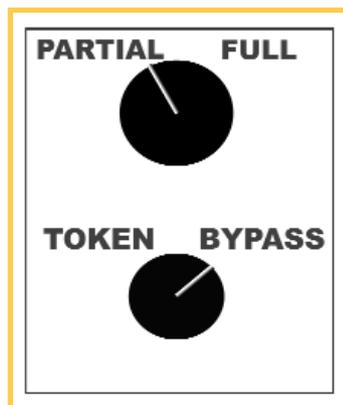


*PMDEBP housing with a C22FL
Token Operated Time Switch plus
Key Bypass Switch and Light
Intensity Switch*

MULTI LIGHTING LEVEL *switching*

All of the floodlighting equipment models can be optionally fitted with a switched input to change the lights operated. This is available in two of three switch setting positions.

An example of the two position switching would be where for a sports ground lighting Position 1 is for lower intensity lighting for training and Position 2 is for high intensity lighting for match games. In this case the time per coin is increased or decreased by 50% as the switch is activated.



Other percentage switching of time per coin value can be provided on application.

Often the feature is used in conjunction with a key by pass switch.

The feature usually comes in a panel mounted facia that can usually be fitted to a number of standard Abberfield housings.

An example of the three position switching would be where either increased intensity light of different fields are being illuminated. The time per coin is varied 1/3, 2/3 of the full set time.

