

# CDT

## LED Count Down Timer

### Features:

- Improved pedestrian compliance to signals
- Interlocks to pedestrian signal
- Extinguishes on green man
- High visibility red LED display
- Updates pedestrian cycle time on every cycle
- Lower power consumption
- High reliability technology
- Minimum maintenance requirement
- Modular polypropylene construction
- Anti-vandal, captive door hinge pins
- Removable full size door for easy maintenance
- Conforms to EMC Directive 89/336/EEC

### To provide information to pedestrians about how much waiting time is left before crossing the street.

The Microsense CDT provides a red LED two digit highly visible display.

The equipment is ideally suited for sites where pedestrian non-compliance is of concern, as the remaining time to wait indication will encourage pedestrians not to try to cross between vehicles.

In each cycle it learns the duration of the cycle from termination of the pedestrian green to the start of the next pedestrian green, this value is then displayed during the pedestrian red period.

The unit counts down the remaining time extinguishing at the same time as the red man.

Should the cycle time increase, the CDT counts down from its starting value, reaches 1 then extinguishes as normal. There would then be a short delay until the red pedestrian signal extinguishes and the green man is displayed. As the CDT continuously learns the cycle time, this delay would only occur once after the change in any cycle time.

Should the cycle time shorten, the CDT will extinguish at the same time as the red pedestrian signal terminates before it has displayed 1. Again, as the CDT continuously learns the cycle time, this would only occur once after the change in any cycle time.

Whether the cycle time increases or decreases the red and green pedestrian signals continue to serve their usual functions and offer the pedestrian exactly the same information as is offered on current crossings.

Based on VMS technology the unit has built in dimming for night time or low light operation.



The CDT is provided as an IP54 sealed unit fitted for easy installation and maintenance.

It is provided fitted in the proven and popular Microsense modular signal head housing. Connection is by a four wire interface to the associated pedestrian signals.

Typical mounting locations are either adjacent to or in line with the pedestrian signals.

The LED technology of the CDT provides a long working life with low power consumption and minimal basic maintenance requirements.

The CDT meets the requirements of those standards used for road traffic control equipment, including EN50293 Electromagnetic compatibility, road traffic signal systems, and product standard; EN12966 road vertical signs, variable message traffic signs, and initial type testing; and EMC Directive 89/336/EEC.

Countdown timers have been shown to improve pedestrian compliance and road safety, and widely used to good effect in many cities and countries around the world including the US, Hong Kong, and France.

### Warranty

The product comes with a 5 year return to base warranty.

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# CDT



## Specifications:

### Size:

200 mm diameter assembly with 7 segment style digits  
132 x 80mm

### Weight:

Maximum 5kg

### Light Output:

1.5cd nominal per LED at bright.

### Colour:

Red

### Operating Voltage:

140-250 V AC, 50 Hz (Dim 140 - 170Vac)

### Operating Current:

40mA max

EMC: In conformity with the following: -

EN 50081-1

EN 50082-1

EN 50293

### Operating Temperature:

-20 - +70C Cable Entry: Kopex gland supplied as standard.

### Materials:

#### Base/Door:

Polypropylene

#### Fixings:

Stainless steel/Polypropylene

### Signal Module size:

37.5 cm (H) x 43 cm (W) x 25 cm (D) including hood fixing rings but excluding hoods

### Temperature Range:

-20 to +60 C. Extended low temperature range material is available to special order.

### Hoods

The CDT can be fitted with a hood if required.

The use of a hood may increase visibility and reduce accumulation of dirt on the signal lenses.

Hoods are fixed to the module door using plastic rivets. They are supplied in kit form for site or depot assembly.

### Material:

Ethylene Vinyl Acetate

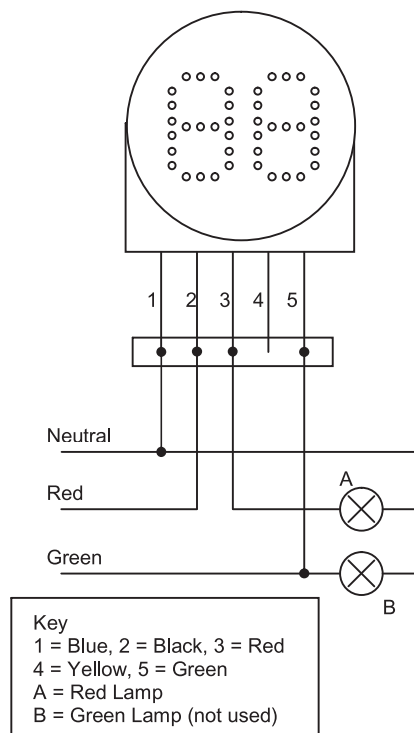
### Type:

Primary, Secondary

### Mounting Brackets

The CDT can be mounted adjacent to the pedestrian signals using the standard side mounting kit.

### Connection Diagram



### DFT Requirements

No objection to the CDT being used provided that site-specific authorisation is requested.