

FLASH TUBE

Xenon filled flash tubes designed for use in Electronic Flash Equipment for Photographic or similar applications to operate from low voltages which can be supplied from a small power pack.

PHYSICAL DETAILS.

CDIO

 Max. Length (excluding leads and pins)
 60 mm. (2·36")

 Max. Diameter of Glass
 8 mm. (3·25")

 Max. Overall Width
 24 mm. (955")

 Electrode Connections
 Flexible Leads

 Mounting Position
 Any

CDII

Max. Seated Height ... 70 mm. (2·75")
Max. Diameter of Glass 8 mm. (0·32")
Max. Overall Width ... 35 mm. (1·38")
Electrode Connections ... Octal Base
Mounting Position ... Any

ELECTRODE CONNECTIONS.

Type CD10 has flexible leads. The twin twisted lead is the trigger lead. The device is non-polarised.

Type CD11 is fitted on an Octal Base—see diagram in margin for connections.

The devices are non-polarised, the charging voltage and discharge capacitor may therefore be connected across the leads marked,* in the marginal diagrams without regard to polarity.

RATINGS. (Both types)

 Max. Discharge Energy
 ...
 50 Joules

 Max. Operating Voltage
 ...
 500 Volts

 Min. Operating Voltage
 ...
 180 Volts

 Min. Interval between Flashes
 ...
 10 Secs

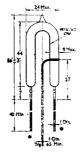
 Max. Discharge Capacitor
 ...
 600 μF

TYPICAL OPERATION. (Both Types)

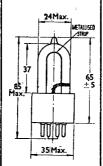
A typical circuit is shown overleaf

CDI0

CDII



Type CD10





Type CD11

Dimensions in millimetres



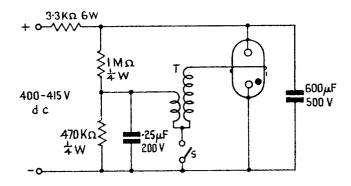
^{*}At maximum dissipation.

[†]Ferranti Miniature Pulse Transformer Type PT56 is recommended.



CDII

CIRCUIT DIAGRAM



Guide Nos. for Flash Photography

For operation in a circuit similar to the above, i.e. with a discharge energy of 50 joules with the CD10 or CD11 mounted in a 3\frac{3}{4}" diameter satin finish parabolic reflector the following guide numbers may be used.

Monochrome Film

Film Speed		c	Guide No
A.S.A.			
25— 32	 	 	50
40 50	 	 	65
64 80	 	 	85
110-125	 	 	105
160-200	 	 	125
25 0 —320	 	 	150

Reversal Colour Film

Film Speed A.S.A.			
25	 	 	30
50	 	 	40

The above figures are approximate and are intended to be used only as a guide for correct exposure.