

Ferranti

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.

CD10

Max. Length (excluding leads and pins)	60 mm. (2.36")
Max. Diameter of Glass	8 mm. (.325")
Max. Overall Width	24 mm. (.955")
Electrode Connections	Flexible Leads
Mounting Position	Any

CD11

Max. Seated Height	70 mm. (2.75")
Max. Diameter of Glass	8 mm. (.325")
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 μ F

TYPICAL OPERATION. (Both Types)

Operating Voltage	410 Volts
†Trigger Voltage	2 to 3 kV
Discharge Capacitor	600 μ F
Charging Resistor	3.3 k Ω (6 watt)
Flash Duration	.002 Sec Approx.

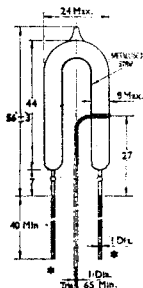
A typical circuit is shown overleaf

*At maximum dissipation.

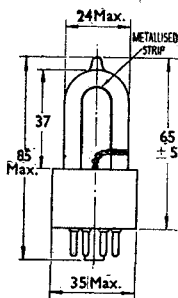
†Ferranti Miniature Pulse Transformer Type PT56 is recommended.

CD10

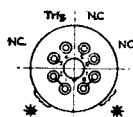
CD11



Type CD10

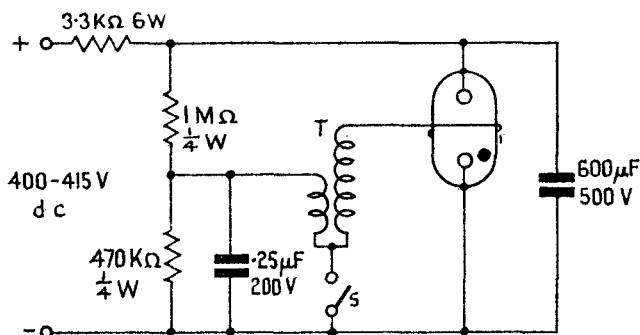


Type CD11



Dimensions in millimetres

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CD10
CD11
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 3½" diameter satin finish parabolic reflector the following guide numbers may be used.

Monochrome Film

Film Speed					Guide No.
A.S.A.					
25—32	...	...	...	...	50
40—50	...	...	...	...	65
64—80	...	...	...	...	85
110—125	...	...	...	...	105
160—200	...	...	...	...	125
250—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.