

# CMV6

# Osram

PHOTOCELLS

## CMV6 PHOTOCELL

### DESCRIPTION

This vacuum photocell has a caesium-silver oxide cathode and is designed principally for measurement in the visible and near infra red spectra.

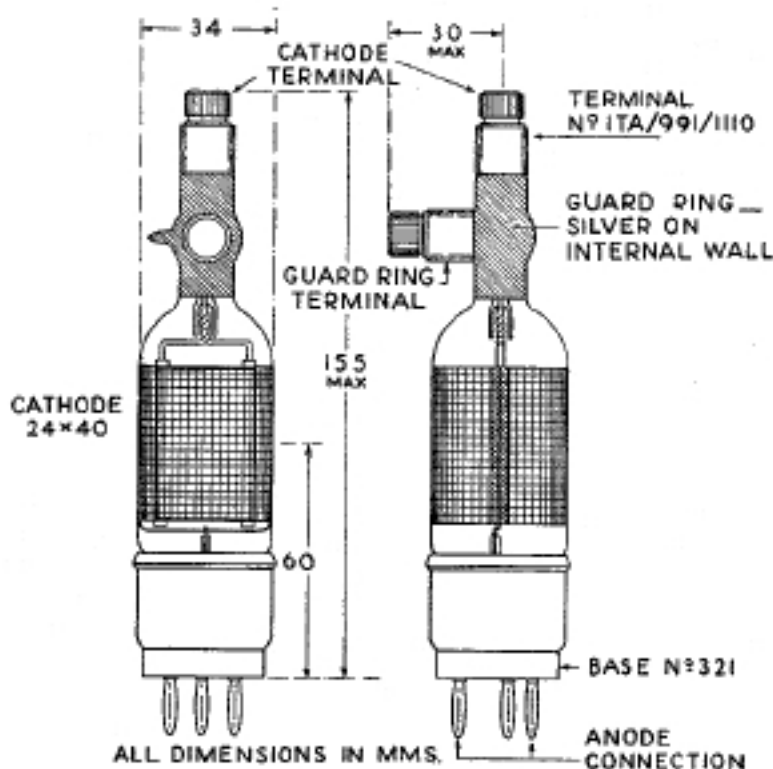
The cathode is in the form of a rectangular plate, centrally placed within the bulb and connection is made to it by a screw cap at the top of the bulb. The anode, which is in the form of a wire mesh surrounding the cathode and in contact with the internal surface of the bulb, is brought out to what are normally the anode and grid pins of a standard valve base, with which the cell is fitted.

A side terminal makes connection to an internal guard ring which consists of a metallic ring deposited on the internal surface of the elongated neck of the bulb, and serves to shunt internal leakage current between the electrodes. An external guard ring can be formed by wrapping a few turns of bare copper wire round the neck of the bulb and connecting the end to the same side terminal.

Where only detection of light is involved it is preferable to use the corresponding gasfilled cell type CMG 8.

The emission of the CMV 6 cell is not less than  $7.5 \mu\text{A}/\text{lumen}$ , and the average value is about  $15 \mu\text{A}/\text{lumen}$  when the source of illumination is a tungsten gasfilled lamp at a colour temp. of  $2848^\circ\text{K}$ .

### DIMENSIONS

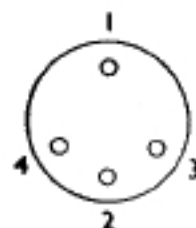


### BASE

#### 4-PIN

- Pin 1: Anode
- 2: Anode
- 3: Not connected
- 4: Not connected

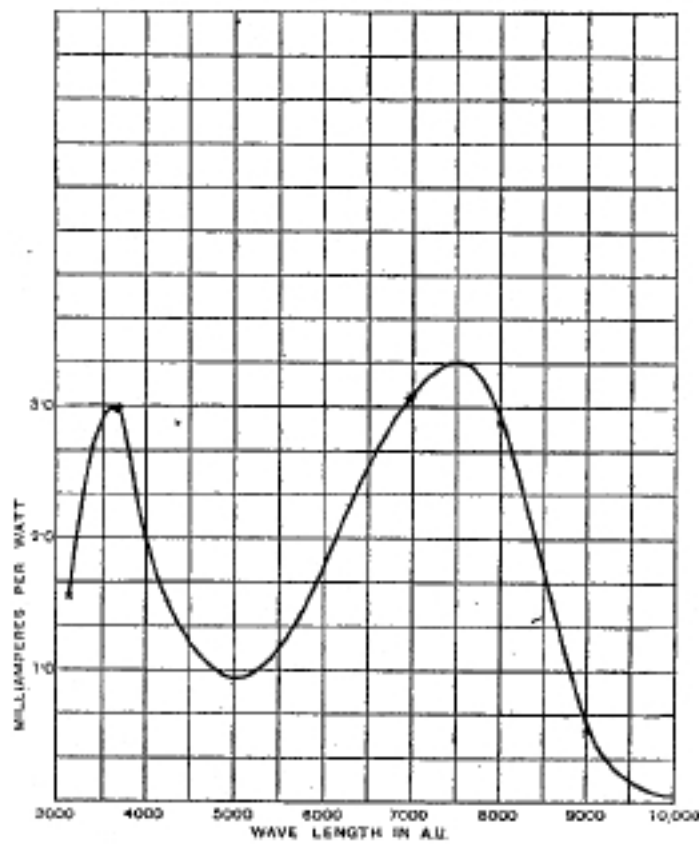
Top screw cap: Cathode  
Side screw cap: Internal guard ring



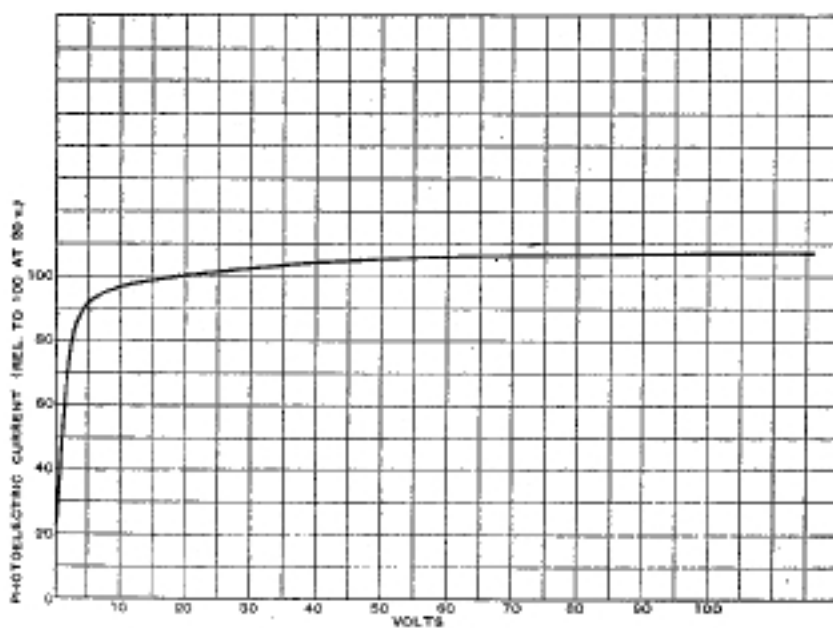
View looking on underside of base.

*All dimensions are in mm. and are the maximum except where otherwise stated.*

# TYPE CMV6



AVERAGE SPECTRAL SENSITIVITY CURVE.  
(Equal distribution of energy in the source of radiation.)



AVERAGE VOLTAGE-CURRENT CHARACTERISTIC  
OF CMV6 TYPE PHOTOCELL.