

27C12

PHOTO-CELL

TENTATIVE

GENERAL

The 27C12 is a vacuum Photo-Cell with a caesium-oxygen-silver cathode surface, having maximum sensitivity in the near infra-red region of the spectrum. It is highly sensitive to incandescent light sources and may be used for machine control, counting applications, etc.

RATING---Absolute values

250	٧
10 100	μA °C
	100

INTER-ELECTRODE CAPACITANCE

Anode/Cathode	ca-k	1 - 1	рF
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CHARACTERISTICS

Average overall sensitivity (approx)		20*	$\mu A/L$
Maximum dark current	ldark(max)	0.0	5† μA
Minimum insulation resistance between electrodes	` ,	2000	МΩ
Recommended working voltage		50	٧

^{*} Measured at 0·1 lumens with a lamp colour temperature of 2700°K and a cell series resistance of 1·0M Ω . Anode voltage=50V.

DIMENSIONS

Maximum overall length	54-5	mm
Maximum seated height	47.5	mm
Light centre from seat	19-5	mm
Maximum diameter	19	mm
Minimum cathode width	11.5	mm
Minimum cathode length	22	
Minimum projected cathode area	2.6	sq.cm

December, 1961

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[†] Measured at 100V and $1.0M\Omega$ series resistance, zero illumination.



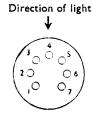
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MOUNTING POSITION—Unrestricted

BASE-B7G



Viewed from free end of pins

CONNECTIONS:

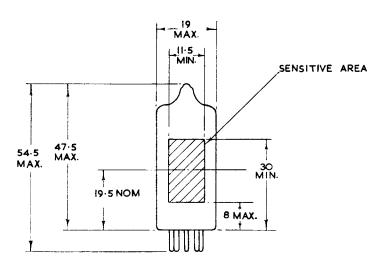
Pin 1	Cathode	k
Pin 2	Cathode	k
Pin 3	Anode	a
Pin 4	Anode	a
Pin 5	Anode	а
Pin 6	Cathode	k
Pin 7	Cathode	k

[†] The cathode connection should be made to pins 1, 2, 6 and 7 connected together and the anode connection to pins 3, 4 and 5 connected together.

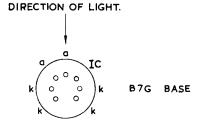


27CI2 PHOTO-CELL

TENTATIVE



All dimensions in mm.



VIEW OF FREE END.