## ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

## VALVE ELECTRONIC CV2I33

Specification AD/CV2133/Issue 2.	SECURITY		
Dested 12.6.51.	Specn.	Valve	
To be read in conjunction with K1004.	Unclassified	Unclassified	

TYPE OF VALVE: - Ges-filled Photo- Electric Cell. CATHODE: - Gesium on oxidised			MARKING See K1001/4, also notes 'A' and 'B' below.			
				BASE B7G See K1001/AIV/D9.		
RATING  Working Voltage (V)  Max. Voltage (V)  Max. Cathode Current (ALA)  Sensitivity (ALA/lumen)	100	Note A B	Pin  1 (c) 2 3 (c) 4 5 (c) 6 7 (c)  See Pag	No connection Cathode No connection Anode No connection Cathode No connection Cathode No connection DIMENSIONS  3.		
DOMOTOTAL OF GRANT TORNON			PACKAGING See K1005.			

## NOTES

- A. The working voltage is to be clearly and permanently marked on each photocell.
- B. The max. voltage is considered to be the voltage which will never be exceeded at any time when the cell is illuminated: it is NOT to be marked on the cell.
- C. No connection is to be made to any of these pins.

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TESTS

To be performed in addition to those applicable in K1004.

	Test 0	onditions	Test	Lim	4+-		
	Va (volts)	Light Flux (lumens)	(See Test)	Min.	Max.	Mo. Tested	Notes
a	25	0.02	Sensitivity (ALA/lumen)	10.0	•	100%	1,2
Ъ	90	0.02	Sensitivity (auA/lumen)	72.0	•	100%	1,2
C	-	-	Gas Factor	1	10	100%	4
a	90	0	Dark Current (ALA)	-	0.1	100%	2
e	100	0.02	There must be no uncontrolled breakdown	-	-	100%	1,2, 3,5
2	100	0	Dark Current (pull)	-	0.2	100%	2,3
8	110	0	Bark Current (NA)	-	0.2	100%	2

## notes

- 1. Light Flux is to illuminate a Cathode Area 22 mm high x 11 mm wide, the centre of which is 19 mm from the soleplate.
- 2. Test to be carried out with resistance of 100,000 ohms ± 5% connected in series with the enode circuit. All voltages in the test are measured across the cell and resistance in series.
- Josts are to be carried out in the order given above and test 'f' is to follow immediately after observing test 'e'.
- 4. Cas Factor is the ratio Iva = 90: Iva = 25.
- 5. Observation of photocell for breakdown should be of at least 10 secs. duration. Should the photocell exhibit any tendency to breakdown during this period, a further test of 2 mins. duration is to be made.

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