

EDISWAN

MAZDA

10M2/UM35

DUAL SENSITIVITY TUNING INDICATOR

Indirectly heated—for series operation

10M2/UM35

GENERAL

The 10M2/UM35 is a cathode ray tuning indicator of the dual sensitivity type giving a fluorescent image in the form of a Maltese Cross. One pair of angles are of low sensitivity whilst the other pair are of high sensitivity, the cut-off voltages being -20 and -3 respectively, with an anode supply voltage of 200 volts.

RATING

Heater Current (amps)	I_h	0.1
Heater Voltage (volts)	V_h	12.6
Maximum Anode Voltage (volts)	$V_a(\max)$	300
Maximum Anode Dissipation (either section) (watts)	$P_a(\max)$	0.5
Maximum Target Voltage (volts)	$V_t(\max)$	250
Minimum Target Voltage (volts)	$V_t(\min)$	90
Maximum Cathode Current (mA)	$I_k(\max)$	5
Maximum Heater/Cathode Voltage (R.M.S.) (volts)	$V_{h-k}(\max)$	200
Maximum Grid to Cathode Resistance (megohms)	$R_{g-k}(\max)$	3

DIMENSIONS

Maximum Overall Length	(mm)	90
Maximum Diameter	(mm)	28
Maximum Seated Height	(mm)	76
Approx. Nett Weight	(ozs)	1
Approx. Packed Weight	(ozs)	$1\frac{1}{2}$

MOUNTING POSITION—Unrestricted.

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TYPICAL OPERATION

H.T. Supply Voltage (volts)	100	200
Target Voltage (volts)	100	200
Target Current at $V_{g1} = 0$ (mA)	0.1	0.4

1st Section

(a'—for weak signals)

Anode Load Resistance (megohms)	2	2	2
Grid Voltage (volts)	0	-2	-3
Anode Current (mA)	0.05	0.03	0.06
Shadow Angle (degrees)	77	15	25

2nd Section

(a''—for strong signals)

Anode Load Resistance (megohms)	1	1	1
Grid Voltage (volts)	0	-10	-20
Anode Current (mA)	0.1	0.04	0.08
Shadow Angle (degrees)	77	5	10

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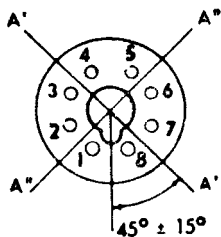
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BASE—International Octal (108).



Viewed from free end of pins

POSITION OF SHADOW

A'—A' Centre line of a' shadow.

A''—A'' Centre line of a'' shadow.

CONNECTIONS

Pin 1	Heater	h
Pin 2	Internal Connection	IC
Pin 3	Anode 2	a''
Pin 4	Target	t
Pin 5	Grid	g
Pin 6	Anode 1	a'
Pin 7	Cathode	k
Pin 8	Heater	h

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TYPICAL CIRCUIT

