

‘Mini’ Bite™ Indicator

Model MB 25

Qualified to MIL-I-83287/5

FEATURES

- **Ultra Small**
- **Light Weight**
- **P.C. Board Mounting**
- **Environmentally Sealed**
- **Low Power**
- **Nonvolatile Display**
- **Dual Coil**

Our nonvolatile internal drum indicator offers the designer a device which rotates when pulsed to change display color. Mounted on a P.C. board, the unit displays a color to indicate a fault or other desired circuit condition. The unit has excellent wide angle visibility under high ambient light conditions and contains no filament to burn out or replace.

Operation

The unit is provided with a set and reset function. A 20 millisecond pulse of the proper polarity applied to the set coil will cause an internal drum magnet to rotate and display a red or white color. A similar pulse of proper polarity applied to the reset coil will cause the drum to rotate and show black. The drum is magnetically latched and will remain in the position last pulsed. The device is nonvolatile, remaining in the set or reset condition without input power.

For matrix configurations this indicator may be gang mounted with minimum space between adjacent units.

ELECTRICAL SPECIFICATIONS

Standard Coil Voltages and Resistances

DC Coil Resistance in Ohms, ±10% @ 25°C	Nominal VoltageDC	Operating Voltage	
		Min Required	Max Allowed
140	5	3.5	6.0
855	12	9.6	14.5

Nominal Operating Pulse Power (at 25°C): 180 milliwatts.

Though designed for pulse operation unit will withstand continuous power throughout operating temperature range without damage.

Operating Pulse Length: will operate at 20 milliseconds, or greater.

Indicator will not operate at 1 millisecond or less at rated voltage, at 25°C. May, or may not, operate between 1 millisecond and 20 milliseconds.

Dielectric Withstanding Voltage: 100 VRMS coil to coil.

Insulation Resistance: 100 megohms @ 100 VDC.

MECHANICAL SPECIFICATIONS

Case: Black, molded polyester.

Window: Glass, clear. Non-glare glass is optional.

Mounting: P.C. mount (see drawing)

Weight: 1.2 grams

Display Colors: Red or White (set) and Black (reset), standard.

Other colors also available on special order. (Non MIL Units)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range: -65°C to +125°C.

Vibration:* .06" D.A. or 20 G Peak, whichever is less, 10 Hz to 1 kHz, MIL STD 202, Method 204, Test Condition D.

For 10 Hz to 2 kHz, 10 G.

Shock: 100 G's MIL STD 202, Method 213, Test Condition I.

Moisture Resistance (Humidity): MIL STD 202, Method 106.

Altitude: 100,000 ft., MIL STD 202, Method 105, Test Condition D.

Thermal Shock: MIL STD 202, Method 107, Test Condition B.

Life: 10,000 cycles at cycling rate of 10 per minute.

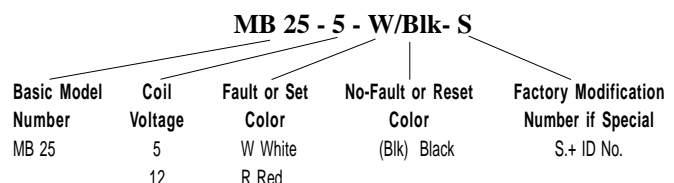
During vibration testing caution should be taken to shield the indicator from the strong magnetic field.

ORDERING INFORMATION

When ordering, show model number first, then coil voltage desired, then the color combination desired. If this is a special part, the factory assigned modification number will be added at the end of the ordering number.

Example:

Basic 5V unit with white set color would be Model MB 25-5-W/Blk

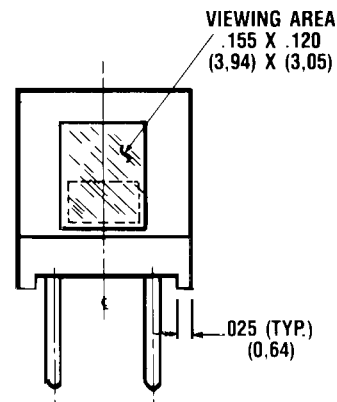
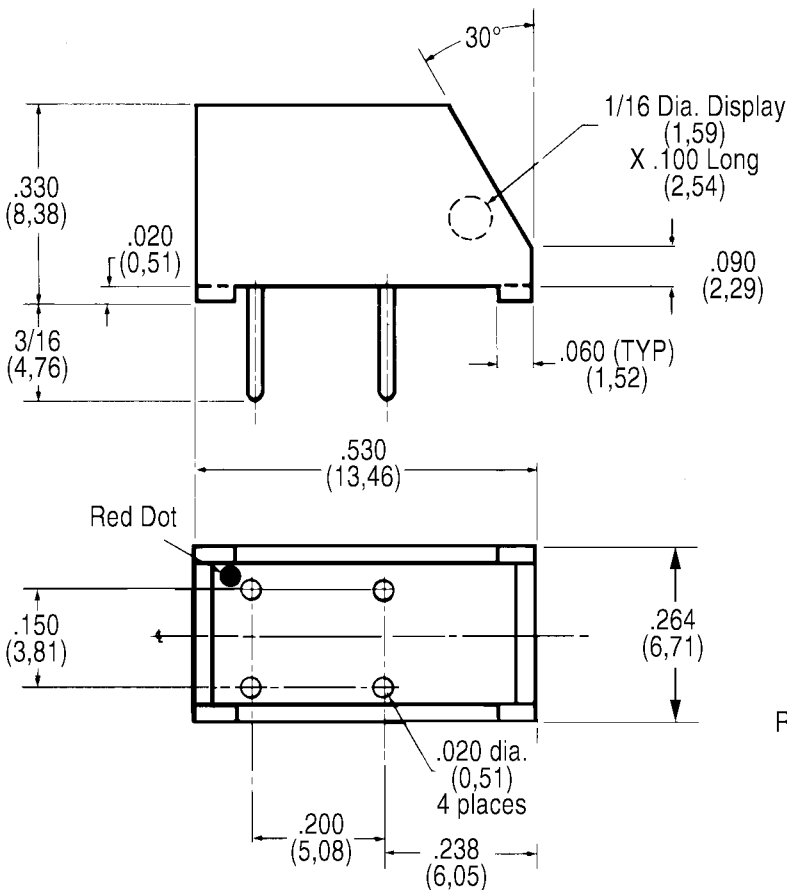
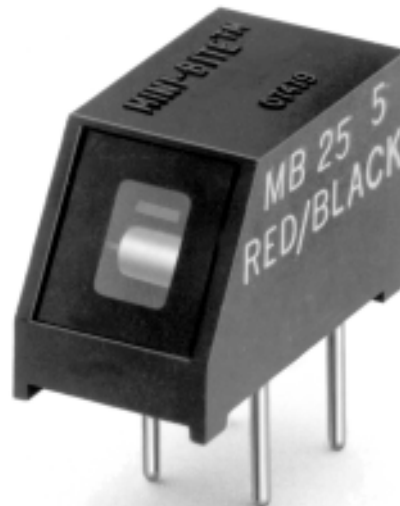


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FRONT



**SCHEMATIC
BOTTOM VIEW**

NOTE:
Dim. in () are mm. Tolerances: Decimals: ± .010 (0,25) Fractions: ± 1/64

FLAG INDICATORS