

BITE Indicators

Model MI57DA

For Indicators qualified to MIL-PRF-83287/2, see page 24



communications
Electrodynamics, Inc.



FEATURES

- Electrical Reset
- Magnetic Latching
- Positive Identification
- Environmentally Sealed
- Rear Mount

The MI57DA magnetic latching fault indicator displays a highly visible dual color internal flag when the indicator coil is pulsed by a BITE (Built-in Test Equipment) system. The “cloverleaf” pattern provides a high contrast visual identification and an effective warning of system results.

OPERATION

When the indicator coil is energized with a 40 millisecond (or longer) pulse, the highly visible display disc rotates and latches to the magnetic core. The display disc will remain magnetically latched to the core in the position last pulsed. Even if the fault signal is removed, the indicator will “remember” that a fault had occurred.

Return to the “No-Fault” position is accomplished electromechanically by pulsing a separate coil.

ELECTRICAL SPECIFICATIONS

Standard Coil Voltages and Resistances

Nominal Voltage DC	Operating Voltage		DC Coil Resistance in Ohms @25°C
	Min	Max	
5.0	4.0	6.0	19-35
12.0	9.6	14.4	130-230
28.0	22.4	30.0	675-880

Pulse Power: One Watt. Nominal

Nominal Pulse Length: 40 milliseconds, minimum with a maximum rise time of 5 ms

Dielectric Withstanding Voltage: 500 VAC RMS.

Insulation Resistance: 100 megohms minimum at 500 VDC.

MECHANICAL SPECIFICATIONS

Case: Black, anodized aluminum.

Mounting: Rear mount (D-hole or keyed washer).

Weight: MIL Unit 20 grams

Display Colors: “NO-FAULT” is black, “FAULT” is black/white

Leads: WL-Eight inches of #26 AWG Teflon insulated wire leads

ENVIRONMENTAL SPECIFICATIONS

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

Vibration*: Sinusoidal: .06" D.A. or 20 G Peak, whichever is less, 10 Hz to 2 kHz per MIL STD 202, Method 204, Test Condition D.

Random: 11.6 G's per MIL STD 202, Method 214, Test Condition D, Curve 1.

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

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

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

Salt Spray: MIL STD 202, Method 101, Test Condition B.

Barometric Pressure: 100,000 ft. MIL STD 202, Method 105, Test Condition D. 350 Volts AC RMS.

Life: 100,000 cycles at cycling rate of 10 per minute.

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

Optional: RFI panel shielding available

ORDERING INFORMATION

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

Example:

Basic model with front panel threaded case for 12 volts with white as set color and black as reset color would be Model MI57DA-12-W/BLK-WL.

MI57DA - 12 - W / BLK - WL - S - ()

Standard Factory Options are designated by “-Sxxx”

Basic Model Number	Coil Voltage	Fault or Set Color	No-Fault or Reset Color	Terminal Type
MI57DA	5	W White	BLK Black	LT Loop Terminals
	12			TT Turret Terminals
	28			WL Wire Leads

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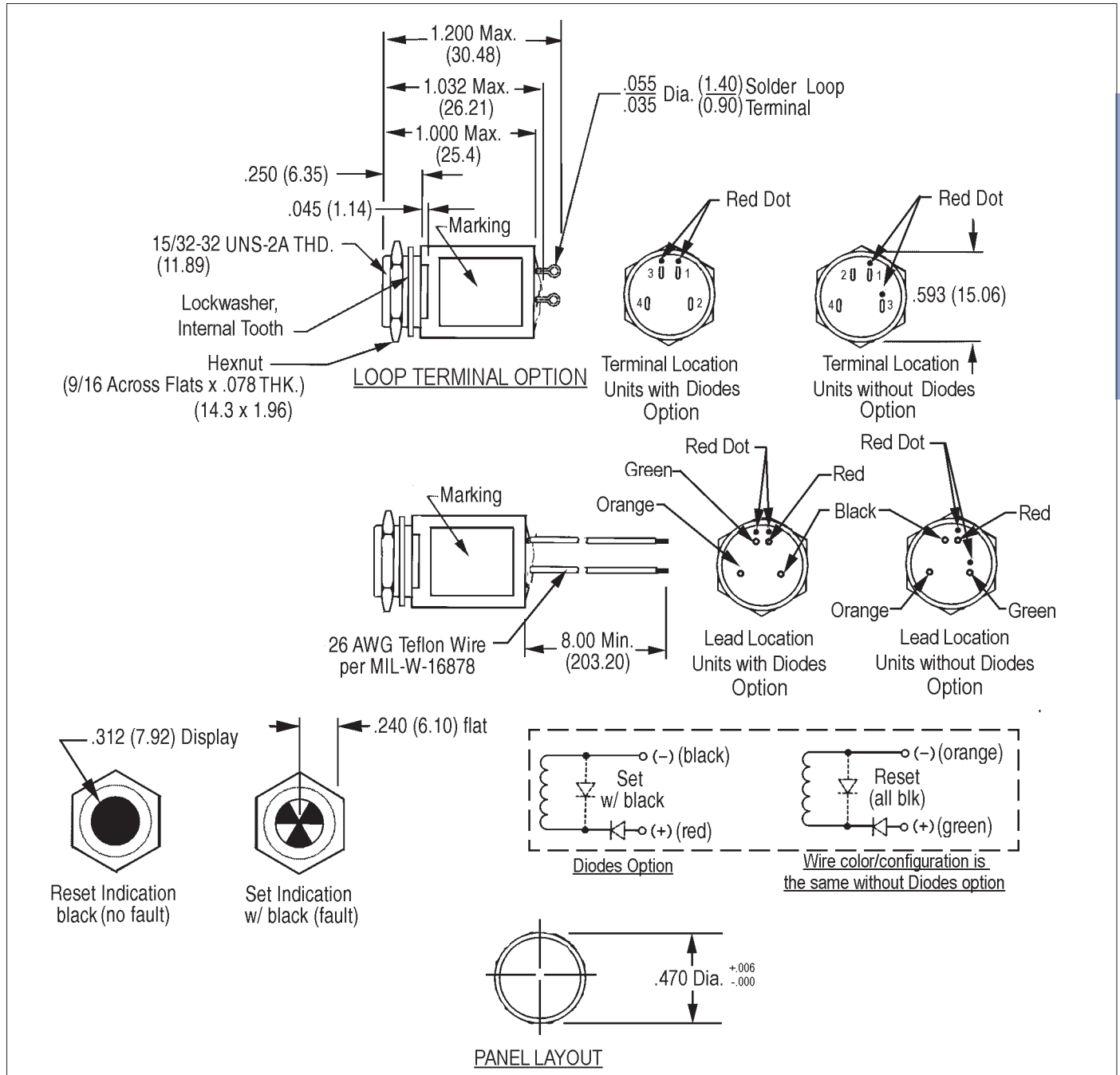
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FLAG INDICATORS



NOTE:

Dimensions in () are mm. Tolerances: Decimals: ± .010 (0,25), Fractions: ± 1/64—All mounting hardware is black anodized aluminum. Mounting Torque: 5-7 in. lbs.

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