

BITE Indicators

Model MI57DA

FEATURES

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

The MI57DA series magnetic latching fault indicator coil is pulsed by a BITE (Built-In Test Equipment) system. The “clover leaf” pattern provides a high contrast visual indication and an effective warning of system faults.

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 electronically by pulsing a separate internal coil.

ELECTRICAL SPECIFICATIONS

Standard Coil Voltages and Resistances

DC Coil Resistance in Ohms, $\pm 10\%$ @ 25°C	Nominal Voltage DC	Operating Voltage	
		Min Required	Max Allowed
9.0	3.0	2.4	3.6
22.0	5.0	4.0	6.0
37.0	6.0	4.8	7.2
145.0	12.0	9.6	14.4
600.0	24.0	19.2	28.0
800.0	28.0	22.4	30.0

Pulse Power: One Watt. Nominal

Pulse Length: 40 milliseconds, minimum.

Dielectric Withstanding Voltage: 500 V RMS.

Insulation Resistance: 100 megohms minimum at 500 VDC.

MECHANICAL SPECIFICATIONS

Case: Aluminum, black anodized. Gold also available.

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

Weight: 10 grams

Display Colors: “NO FAULT” is black, “FAULT” is black/ white, as shown. *Other colors available.*

Leads: WL - Eight inches of #26 AWG Teflon insulated stranded wire
LT - Solder Loops
TT - Turret Terminals

ENVIRONMENTAL SPECIFICATIONS

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

Vibrational:

Sinusoidal: 06" D.A. or 20 G Peak, which ever 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.

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

Barometric Pressure: MIL STD 202, Method 105, Test Condition D, with 350 Volts RMS.

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

Optional: RFI panel shielding available.

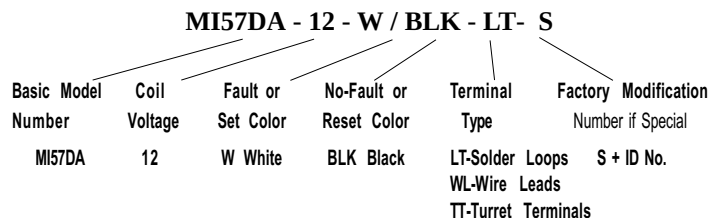
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ORDERING INFORMATION

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.

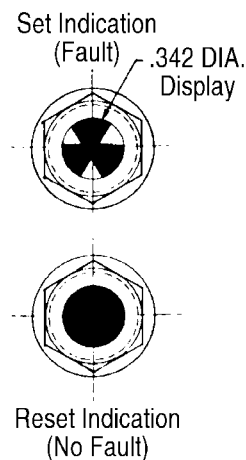
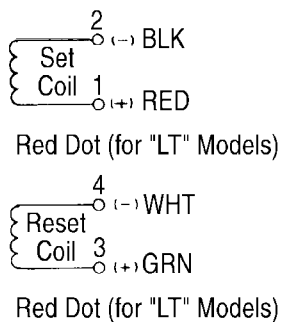
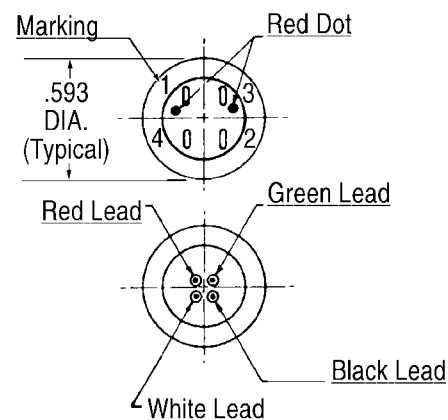
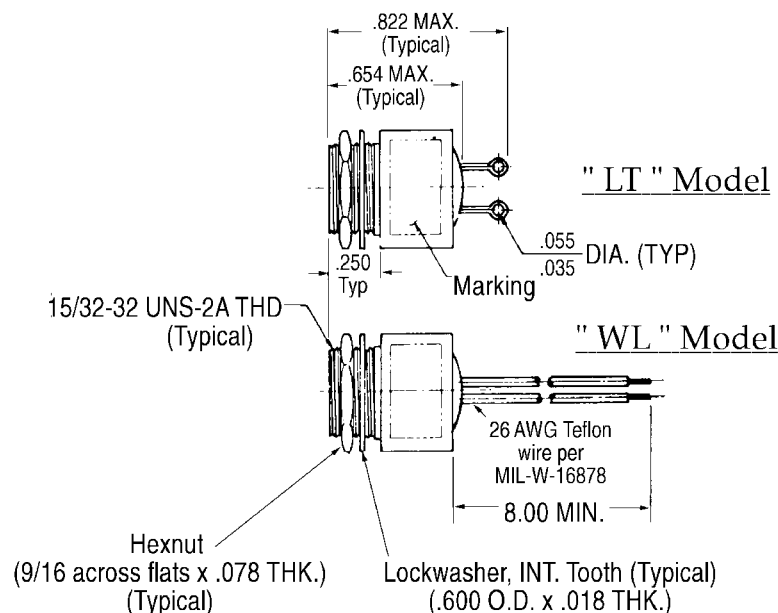
Example:

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-LT.



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NOTE:

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