

BITE INDICATORS LATCHING OR SELF-RESTORING



Models MI61, LD & M

The MI61 series magnetic latching fault indicator displays a highly visible, dual-color drum when the indicator coil is pulsed by a BITE (Built-In Test Equipment) system. The drum provides a high contrast visual indication and an effective warning of system faults. The drum can accommodate a legend such as “GO” or “FAIL” when specific information needs to be displayed.

FEATURES

- Environmentally sealed
- Choice of self-restoring or magnetic latching types
- Optional legend display

OPERATION

When the indicator coil is energized with a 50 millisecond or longer pulse, the drum rotates to display the message or system status.

Model MI61M is a self-restoring, steady-state indicator that automatically returns to a neutral state when power is removed. It does not latch to the core magnet, but remains suspended in the position until power is removed.

Model MI61LD is a latching indicator that remains magnetically latched to the core in the position last pulsed.

For the MI61LD, a dual coil device, reset to the “No-fault” position is accomplished electronically by pulsing the reset coil.

ELECTRICAL SPECIFICATIONS

Standard coil voltages and resistances

Standard Coil Voltages and Resistance:

Resistance \pm 10% shown at 25°C.

DC Voltage	3.0	5.0	6.0	12.0	24.0	28.0
Resistance (Ohms)	6.0	20.0	24.0	103.0	385.0	520.0

Power: Steady state for model MI61M – 1.5 Watts

Pulse Power for Latching Models: 1.5 Watts, minimal

Pulse Length for Latching Models: 50 ms min.

Dielectric Withstanding Voltage: 500 VDC case to terminals.
100 VDC coil to coil on dual coil units

Insulation Resistance: 100 megohms minimum at 500 VDC

MI61M



MECHANICAL SPECIFICATIONS

Case: Black anodized aluminum with sealed glass window

Mounting: Front panel mount

Weight: 20 grams maximum

Display Colors: Any combination of: Black (Blk), White (W), Red (R), Orange (O), Yellow (Y), and Green (G)

Legend: Available maximum letter height 1/8"

Hardware: Units supplied with hex nut

ENVIRONMENTAL SPECIFICATIONS

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

Vibration*: 10 Gs, 10 to 2kHz, MIL STD 202

Shock: 50 Gs - MIL STD 202, Method 213, Condition G

Humidity: 95% relative humidity MIL STD 202, Method 103, Test Condition B

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

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

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

Operational Life: 10,000 cycles minimum

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

This page consists of basic marketing information that is not defined as technical data under EAR Part 772.

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ORDERING INFORMATION

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

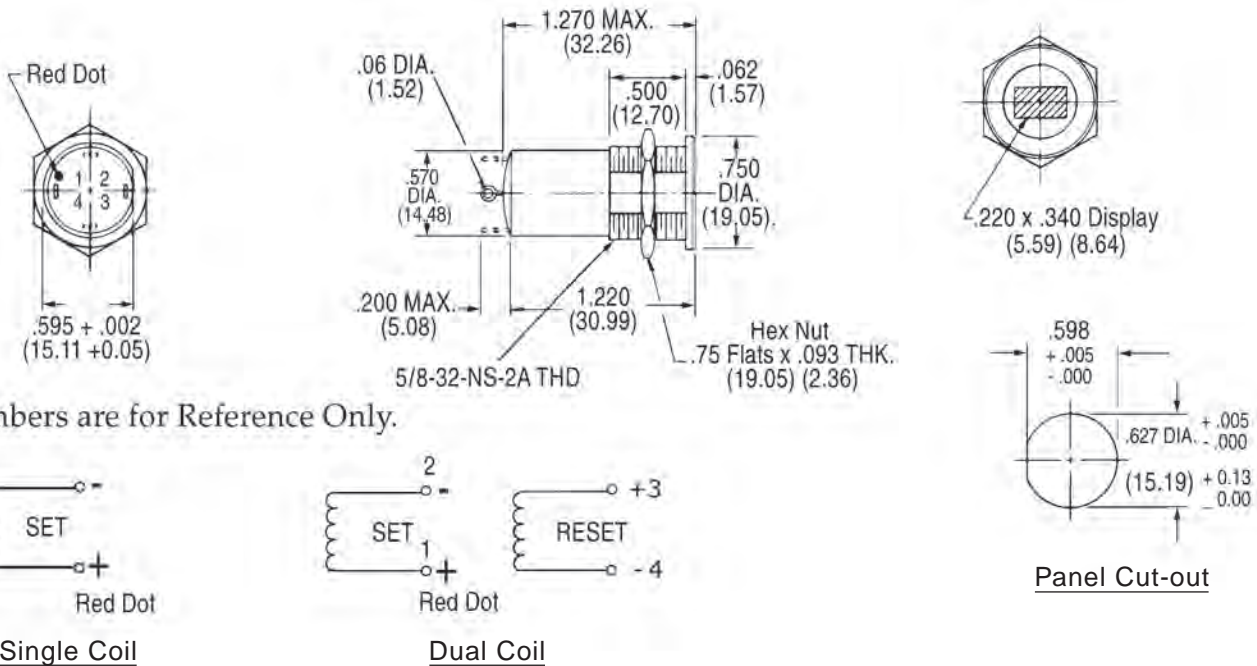
Example:

Dual coil magnetically latching unit for 24 volts with black for the fault color and red for reset color would be: Model MI61LD-24-BLK/R.

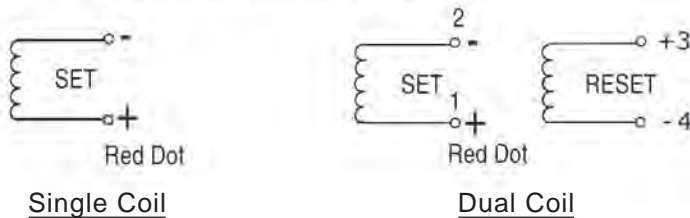
MI61LD - 24 - BLK / R - ()

Standard factory options are designated by "-Sxxx"

Basic Model Number	Coil Voltage	Fault or Set Color	Reset Color
MI61M	3	R Red	R Red
	5	W White	W White
MI61LD	6	BLK Black	BLK Black
	12	G Green	G Green
	24	Y Yellow	Y Yellow
	28	O Orange	O Orange



Numbers are for Reference Only.



MI61, LD and M

NOTE: Dimensions 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.

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