

Models MI61SA and RA^①

For Indicators qualified to MIL-PRF-83287/1, see page 28.

The MI61SA and RA^① (MIL-PRF-83287/1) series magnetic latching fault indicators display 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 indication and an effective warning of system results.

FEATURES

- Manual reset return
- Environmentally sealed
- Magnetic latching
- Random vibration capability

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 mechanically by rotating the knurled knob clockwise to 60°. The knob automatically returns to its normal position. Optional features include insulated lead wire or turret termination, non-glare lens, and RFI panel shield. Consult your representative or the factory for details.

ELECTRICAL SPECIFICATIONS

Standard coil voltages and resistances			
Nominal Voltage DC	Operating Voltage Minimum	Operating Voltage Maximum	DC Coil Resistance in Ohms, @25°C
3.0	2.4	3.6	8.5-18
5.0 ^①	4.0	6.0	22-52.8
6.0	4.8	7.2	33-77
12.0	9.6	14.4	130-303
20.0	16.0	30.0	360-1225
24.0 ^①	19.2	28.8	530-880
28.0	22.4	30.0	720-1331

^①MI61RA offered in 5VDC and 24VDC versions only.

Pulse Power: One Watt Nominal

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

Dielectric Withstanding Voltage: 500 VAC RMS

Insulation Resistance: 100 megohms minimum at 500 VDC

Electromagnetic Interference and Magnetic Susceptibility: Per MIL-PRF-83287. MI61SA and MI61RA will not malfunction or false transfer when subjected to a 20 ampere turn field at 400Hz.



MECHANICAL SPECIFICATIONS

Case: Black anodized aluminum

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

Weight: 13 grams

Display Colors: “No-fault” is black
“Fault” is black/white, as shown

Leads: WL-Eight inches of #26 teflon insulated standard wire leads or turret terminals (TT)

Glass: Standard (S), Non-glare (N)

ENVIRONMENTAL SPECIFICATIONS

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

Vibration*:

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

Random: 11.6 Gs rms per MIL STD 202, Method 214, Test Condition D, Curve 1

Shock: 100 Gs 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, with 350 VAC, RMS

Life: 10,000 cycles

* (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.



ORDERING INFORMATION

When ordering, show model number first, coil voltage, the color combination desired, terminal type, and glass type. 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.

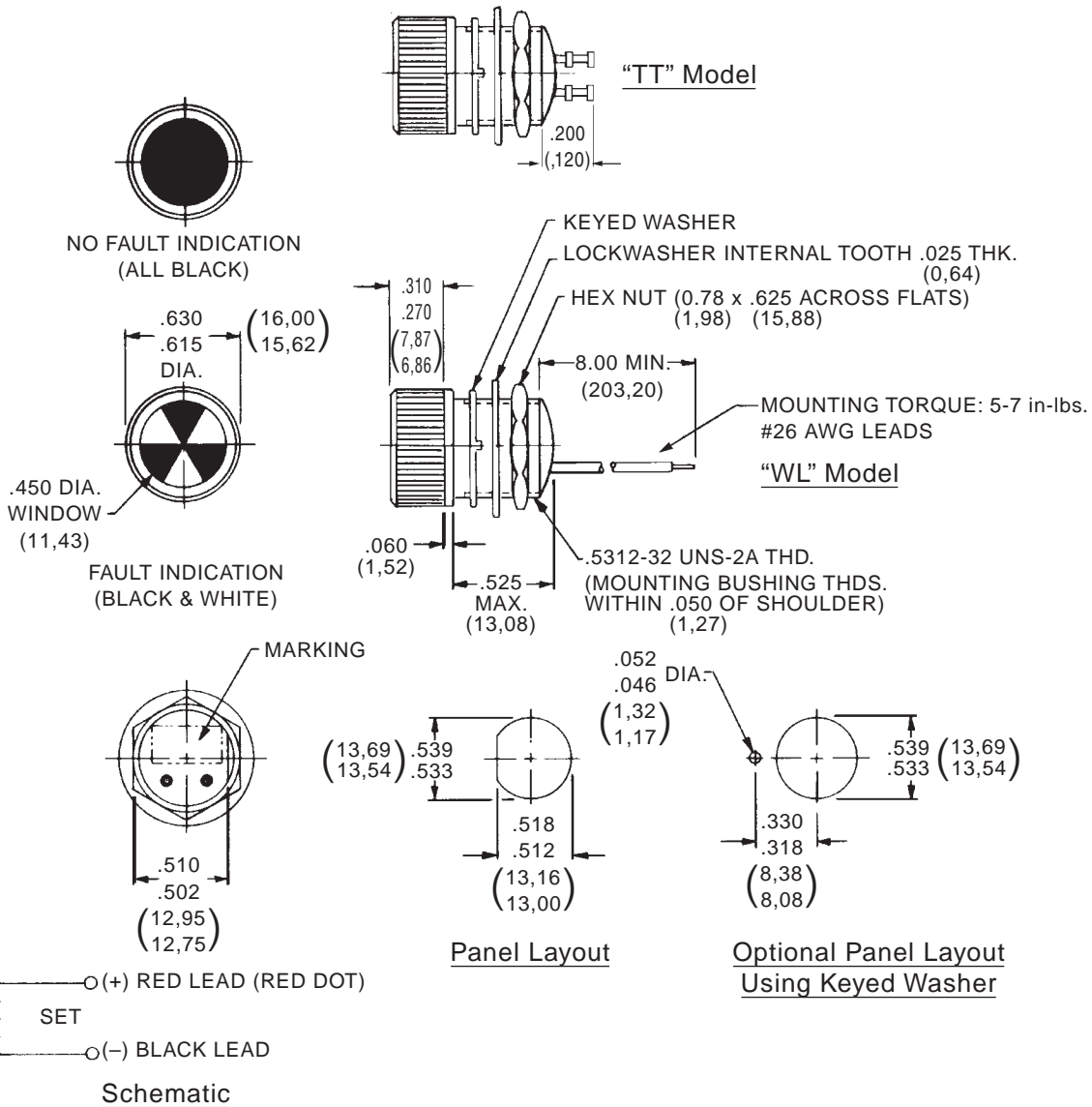
Example:

Basic model for 12 volts with all black for reset (No-fault) color and black/white for set (Fault) color, turret terminals, non-glare glass would be Model MI61SA-12-W/BLK-TT-N.

MI61SA - 12 - W / BLK - TT - S - ()

Standard factory options are designated by "-Sxxx"

Basic Model Number	Coil Voltage	Fault or Set Color	No-fault or Reset Color	Terminal Type	Glass Type
MI61SA	3	Black/White	Black	TT Turret Terminals	S Standard Glass
MI61RA [®]	5			WL Wire Leads	N Non-glare Glass
	6				
	12				
	20				
	24				
	28				



MI61SA and RA[®]

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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