

MINIATURE BITE INDICATORS

SELF-RESTORING TYPE INDICATOR



Model BIS

Our BIS series indicators provide visual indication of the status of any circuit parameter being monitored. This series is a self-restoring design that automatically returns to a neutral state when power is removed.

FEATURES

- Self-restoring
- Sunlight readable
- Small, lightweight
- Ruggedized

OPERATION

When the indicator coil is energized, the highly visible two color display ball changes color by spinning 180°. It does not latch to the core magnet, but remains suspended in that position until power is removed. The BIS indicator offers excellent visibility in high ambient light and does not contain any bearings, springs, or filaments that can wear out. Optional features include insulated lead wire termination, special lenses (radius dome, cylindrical, non-glare), O-ring panel seal, and RFI panel shield. Consult the factory for details. Care should be taken in the application of this device. As a magnetic component, it is subject to magnetic interference from other devices which may emit magnetic fields. Consult the factory if any possibility of interaction exists.

ELECTRICAL SPECIFICATIONS

Standard coil voltages and resistances			
Nominal Voltage DC	Operating Voltage Minimum	Operating Voltage Maximum	DC Coil Resistance in Ohms, ± 10% @ 25°C
1.5	1.25	1.75	3.45
3.0	2.5	3.5	13.8
5.0	4.5	5.5	38.0
6.0	5.5	6.5	55.0
12.0	9.0	15.0	220.0
24.0	17.0	27.0	880.0
28.0	20.0	30.0	1200.0

Nominal pulse power: 650 milliwatts

Operating pulse length: will operate at 40 milliseconds or greater

Dielectric withstanding voltage: 500 VAC RMS case to terminals

Insulation resistance: 100 megohms minimum at 500 VDC

BIS 21T



BIS 27T



BIS 37T



MECHANICAL SPECIFICATIONS

Case: Aluminum, black anodized with sealed glass window

Mounting: Front panel threaded, rear panel threaded, and press fit sleeve

Weight:

Models BIS21, BIS21T, BIS27T 2.5 grams

Model BIS37T 3.0 grams

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

Mounting Hardware: Lockwasher, internal tooth phosphor bronze, nylon mounting sleeve, hex nuts are black anodized aluminum.

Display Area: All units measure .200 in. (5.08 mm) diameter

ENVIRONMENTAL SPECIFICATIONS

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

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

Shock: 100 Gs MIL STD 202, Method 213, Test Condition I

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

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

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

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

Life: 1,000,000 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.

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SELF-RESTORING TYPE INDICATOR



BALL INDICATORS

ORDERING INFORMATION

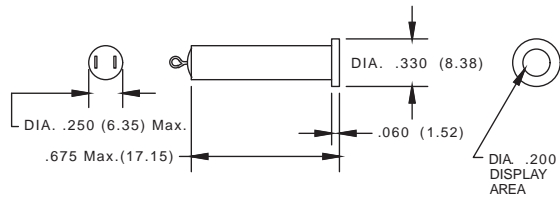
When ordering, show model number first, coil voltage, and the color combination desired. If this is a special part, a factory assigned modification number will be added at the end of the ordering number. Consult the factory for special configurations.

Example:

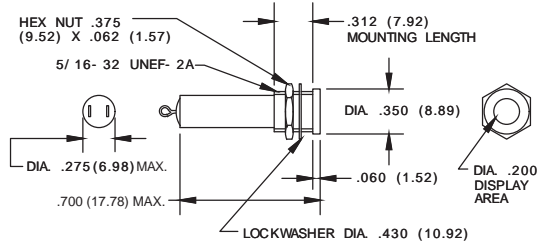
A basic model with a front panel threaded case for 12 volts with white as a Set color and black as a Reset color would be Model BIS21T-12-W/BLK.

Recommended cut-outs:

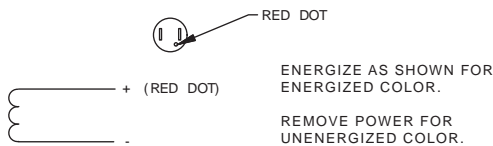
BIS21 = .265 in., BIS21T & BIS27T = .315 in., BIS37T = .375 in.



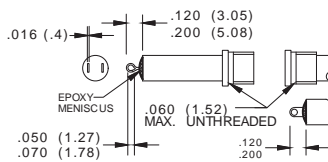
BIS21



BIS21T



ELECTRICAL DATA



MECHANICAL DATA

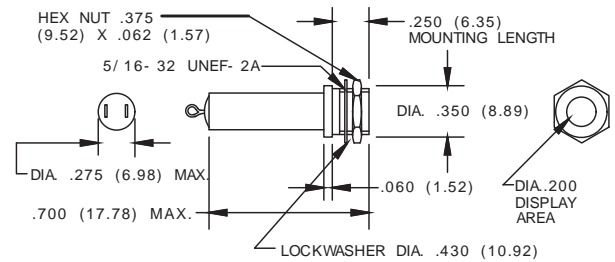
NOTE: Dimensions in () are mm. Tolerances: Decimals: ± .010 (0.25)
Fractions: ± 1/64—All mounting hardware is black anodized aluminum. Mounting Torque: 5-7 in. lbs.

BIS21T - 12 - W / BLK - ()

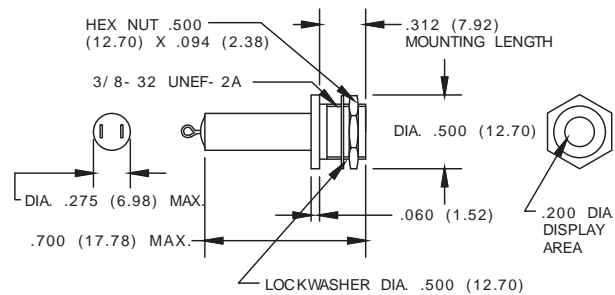
Standard factory options are designated by "-Sxxx"

Basic Model Number	Coil Voltage	Fault or Set Color	No Fault or Reset Color
BIS21	1.5	R Red	R Red
BIS21T	3	W White	W White
BIS27T	5	BLK Black	BLK Black
BIS37T	6	G Green	G Green
	12	Y Yellow	Y Yellow
	24	O Orange	O Orange
	28		

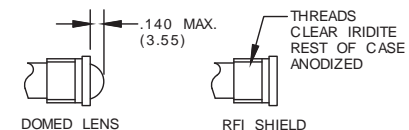
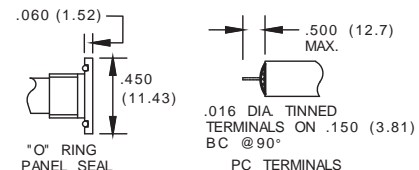
BIS.....TL = Domed lens



BIS27T



BIS37T



OPTIONS AVAILABLE (consult factory)

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