Mil-Spec Indicators

Rear and Panel Mount Qualified to MIL-I-83287/2

FEATURES

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

The M832877/2 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.

Military Product Ordering Information

When ordering military spec product, use the basic MIL number followed by MIL dash number. Example M83287/2-01

Case: Black, anodized aluminum. Mounting: Front panel by mount (D-hole or keyed washer).

Dielectric Withstanding Voltage: 500 V RMS.

ELECTRICAL SPECIFICATIONS

Pulse Power: One Watt. Nominal Pulse Length: 40 milliseconds, minimum

Insulation Resistance: MIL-I-83287

MECHANICAL SPECIFICATIONS

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 LT- Solder Loops

See MIL-PRF-83287 for values. Also shown in table below.

Electromagnetic Interference and Magnetic Susceptibility: Per MIL-1-83287. The units will not malfunction of false transfer

when subjected to a 20 ampere turn field at 400 Hertz.

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,

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 minutes.

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

*During vibration testing caution should be taken to shield the indicator from the strong magnetic field. Optional: RFI panel shielding available Covered by U.S. & Foreign Patents

uasii iluliibel.	_лапріс.	IVIOSZOTI										
Basic Part	Standard Glass				Non-Glare Glass				Rated	Coil Resistance		Configuration
Number	Wire Leads		Solder Loops		Wire Leads		Solder Loops		Voltage	OHMS		
	Diodes		Diodes		Diodes		Diodes		DC	Ambient		
	W/Out	With	W/Out	With	W/Out	With	W/Out	With				
`	Dash Number				Dash Number					Min	Max	
M83287/2	-01	-02	-03	-04	-05	-06	-07	-08	28	675	880	A
M83287/2	-09	-10	-11	-12	-13	-14	-15	-16	28*	360	500	A
M83287/2	-17	-18	-19	-20					28	375	850	A
M83287/2	-21		-22		-23		-24		28	675	880	В
M83287/2	-25		-26		-27		-28		28*	360	500	В
M83287/2	-29	-30	-31	-32	-33	-34	-35	-36	12	130	230	A
M83287/2	-37		-38		-39		-40		12	130	230	В
M83287/2	-41	-42	-43	-44	-45	-46	-47	-48	5	19	35	A
M83287/2	-51		-52		-49		-50		5	19	35	В

*FOR USE WITH UNREGULATED POWER SUPPLY (MIL-STD-704)

MIL-Spec Indicators

communications Electrodynamics, Inc.

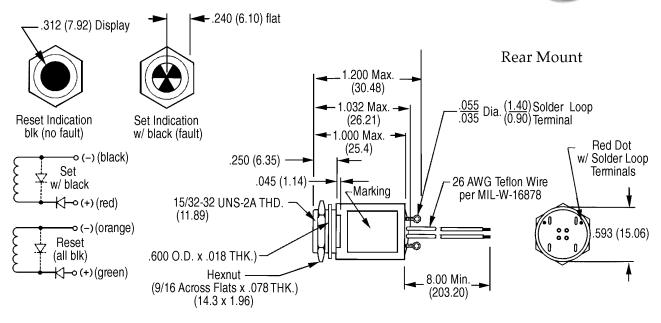
Rear and Panel Mount

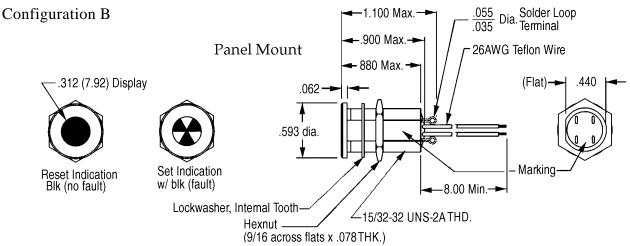
Qualified to MIL-I-83287/2





Configuration A





NOTE:

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