

MACD-14 Features and Benefits



Features

- Sub-miniature, normally open switch
- 14mm x 2.28mm (0.551" x 0.090") glass envelope
- Capable of switching 200 Vdc at up to 10 Watts
- Switching current up to 0.5 Amps
- Low close/open hysteresis (close differential)
- 10¹⁰ Ohms insulation resistance
- Available sensitivity range 10-30 AT
- RoHS compliant

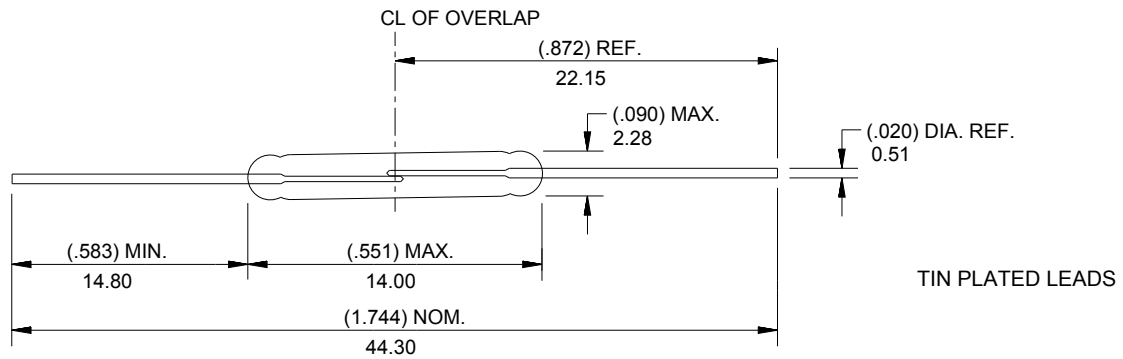
Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- No minimum switching voltage or current
- Low, stable contact resistance
- Zero operating power required for contact closure
- Fit and forget durability

Applications

- Position Sensing
- Proximity Sensing
- Sensing Float Position for Liquid Level
- Industrial Controls
- Office Equipment
- Home Appliances

DIMENSIONS (inch) mm



SWITCH TYPE			MACD-14
Contact Form			A (SPST-NO)
Certifications		File Numbers	E47258, E471070
ELECTRICAL RATINGS			
Contact Power Rating (2)		W / VA - max.	10
Voltage	Switching	Vdc - max.	200
	Breakdown	Vac - max.	140
Current	Switching	Vdc - min.	200
	Carry	Adc - max.	0.50
Resistance	Contact, Initial Insulation	Aac - max.	0.35
		Adc - max.	1.00
Capacitance	Contact	Ω - max.	0.100
Temperature	Operating Storage (6)	Ω - min.	10 ¹⁰
		pF - typ.	0.3
OPERATING CHARACTERISTICS			
Operate Time (3)		°C	-40 to +125
Release Time (3)		°C	-65 to +125
Shock	11ms ½ sine wave	ms - max.	0.6
Vibration	50-2000 Hertz	ms - max.	0.2
Resonant Frequency		G - max.	100
		G - max.	30
		Hz - typ.	5300
MAGNETIC CHARACTERISTICS			
Pull-In Range (4)		Ampere Turns	10-30
Drop-out		Ampere Turns - min.	5
Rating Sensitivity (5)		Ampere Turns	20
Test Coil			L4989

Notes:

1. For details on electrical specifications, contact Littelfuse / Hamlin.
2. Contact Power Rating - Product of the switching voltage and current should never exceed this rating.
3. Operate (including Bounce) and Release Time - per EIA/NARM RS421A, diode suppressed coil.
4. Pull-In Range - Contact Littelfuse / Hamlin for tolerances available within this range.
5. Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
6. Storage Temperature - Long term exposure at elevated temperature may degrade solderability of leads.