



Features

- Surface mounting normally open switch
- Sub-miniature size with 10.16mm x 1.80 mm (0.400" x 0.071") glass envelope
- Capable of switching 200Vdc or 0.5A at up to 10W
- 10^{12} Ohms insulation resistance
- Available sensitivity 10-25 AT
- Bulk or tape and reel packaging. See sheet 2

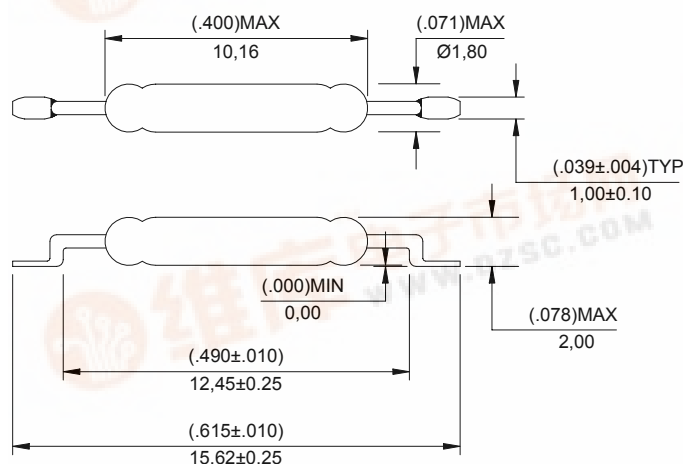
Benefits

- Hermetically sealed switch contacts are not affected by and have no effect on their external environment
- Low, stable contact resistance
- Very small space requirements
- Zero operating power required for contact closure
- Fit and forget durability

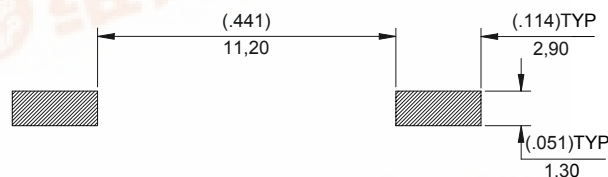
Applications

- Position sensing
- Level sensing
- Security
- Metering
- Mobile phones

SWITCH DIMENSIONS (in) mm



RECOMMENDED LAND PATTERN



SWITCH TYPE

MDSM-10

ELECTRICAL RATINGS

Contact Form A - Normally Open

Contact Rating (1)	Power	Watts - max	10
Voltage	Switching	Vdc - max.	200
	Breakdown	Vdc - min.	250
Current	Switching	A - max.	0.5
	Carry	A - max.	1.0
Resistance	Contact, Initial	Ohms - max.	0.12
	Insulation	Ohms - min.	10^{12}
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	°C	-40 to +125
	Storage (2)	°C	-65 to +125

OPERATING CHARACTERISTICS

Time	Operate (3)	ms - max.	0.5
	Release (3)	ms - max.	0.1
Shock	11ms ½ sine	G - max.	100
Vibration	50-2000 Hz.	G - max.	30
Resonant Frequency		kHz -typ.	6.5

MAGNETIC CHARACTERISTICS

Pull-In Ranges Available	Switch AT before modification	Ampere Turns (AT)	10-25, 10-15, 15-20 and 20-25
Rating Sensitivity (4)		Ampere Turns (AT)	15
Test Coil			L4989

Notes:- 1) Contact Rating. Product of the switching voltage and current must never exceed the wattage rating. Contact Hamlin for additional load/life information.

2) Storage Temperature. Long term exposure at elevated temperature may degrade solderability of the leads.

3) Operate (including bounce) /Release Time. Tested per EIA/NARM RS421A with diode suppressed coil.

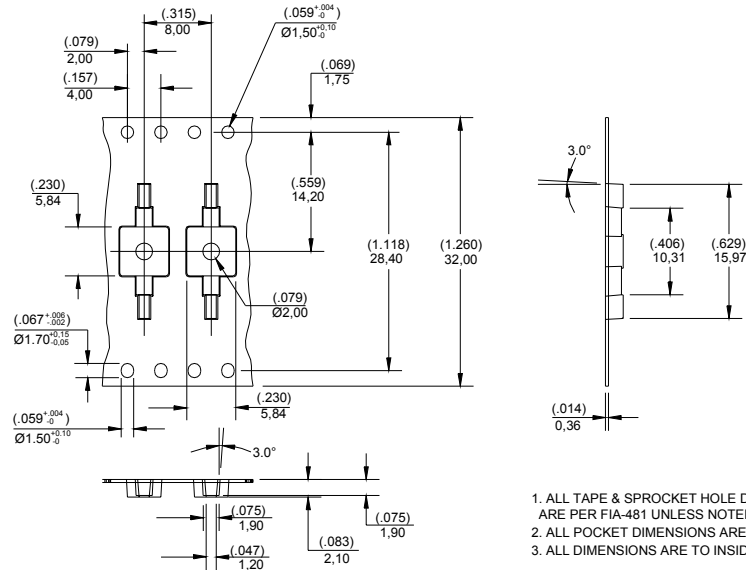
4) Rating Sensitivity. The value at which the contact ratings and operating characteristics are determined. De-rating may be required below this value.

DETAILS ON THIS DATA SHEET ARE PROVIDED FOR INFORMATION PURPOSES ONLY & SHOULD NOT BE RELIED UPON AS BEING ACCURATE FOR ANY PARTICULAR PURPOSE. Product performance may be affected by the application that the part is used for. Upon request Hamlin will assist purchasers by providing information specific to a particular application. Hamlin disclaims all liability whatsoever for any purchaser's reliance upon the information contained in this data sheet without further consultation with Hamlin's authorised representatives.

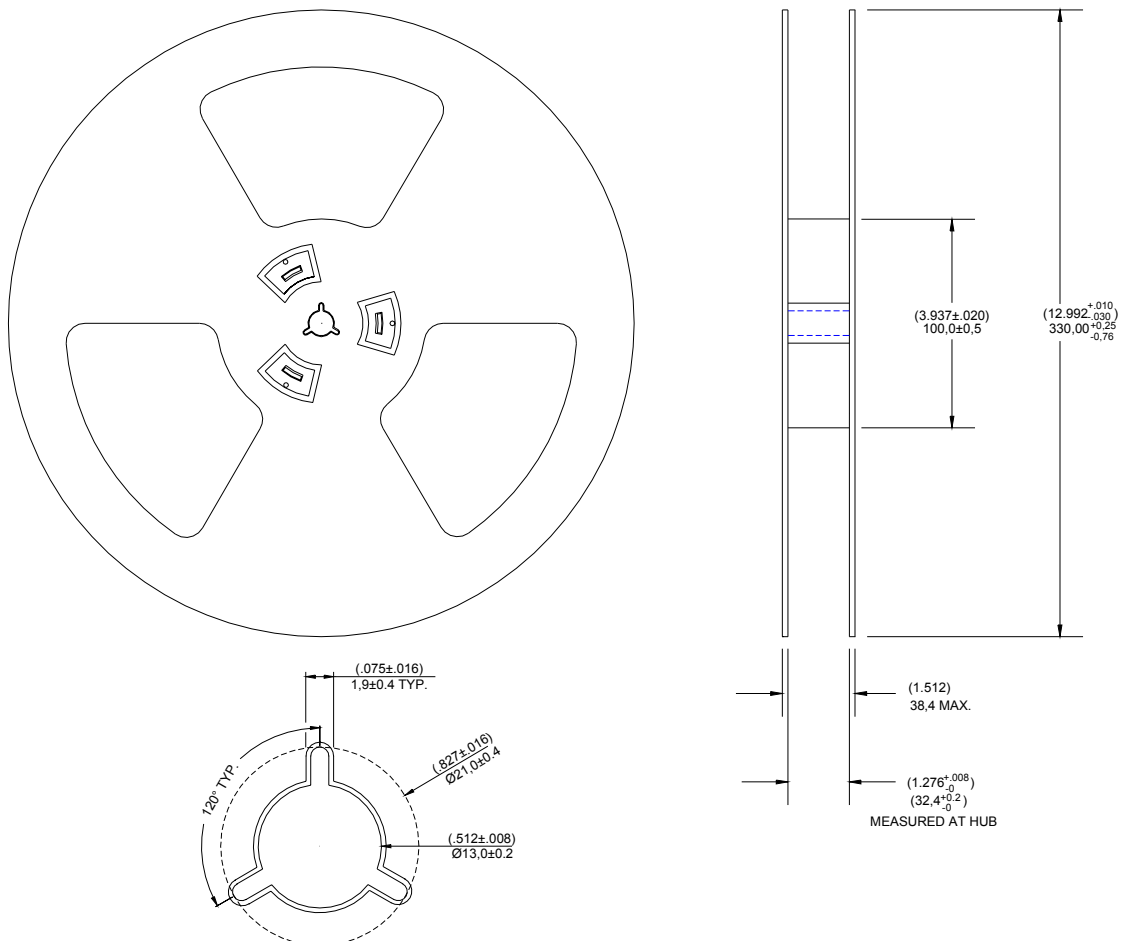


Packaging: - Bulk - 100 per Box or Tape and Reel - 3,000 per Reel

TAPE DIMENSIONS (in) mm



REEL DIMENSIONS (in) mm



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