

MDSM-10 REED SWITCH



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

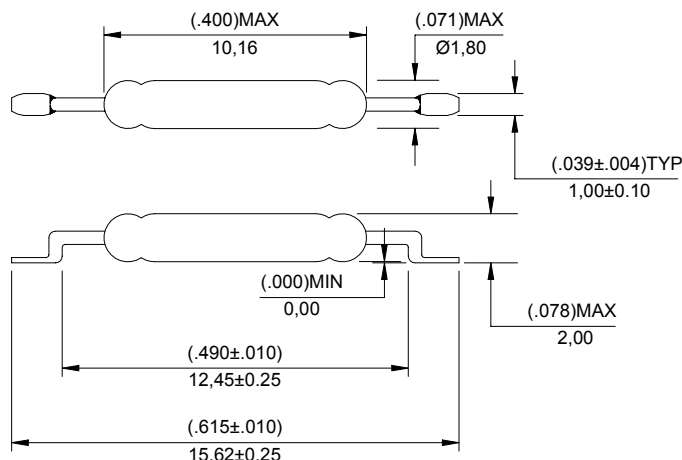
Benefits

- 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

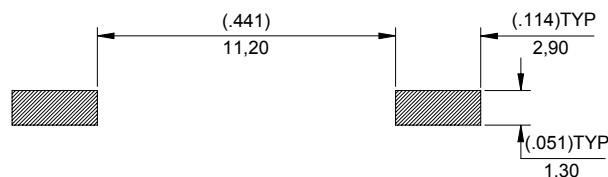
Applications

- 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

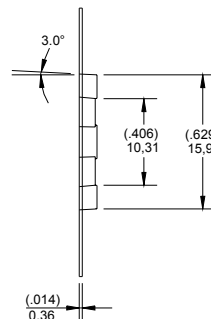
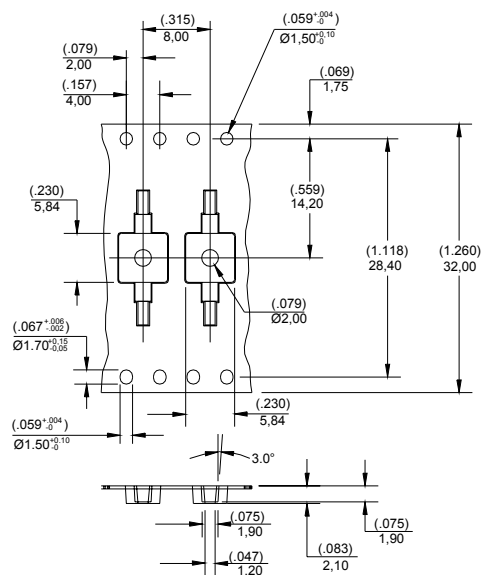
Pull-In Ranges Available	Switch AT before modification	Ampere Turns (AT)	10-25, 10-15, 15-20 and 20-25
Rating Sensitivity (4)		Ampere Turns (AT)	15
Test Coil			L4989

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.

Packaging: - Bulk - 100 per Box or Tape and Reel - 3,000 per Reel
TAPE DIMENSIONS (in) mm


1. ALL TAPE & SPROCKET HOLE DIMENSIONS ARE PER FIA-481 UNLESS NOTED
2. ALL POCKET DIMENSIONS ARE $\pm(.004")$ 0.10mm
3. ALL DIMENSIONS ARE TO INSIDE OF POCKET

REEL DIMENSIONS (in) mm
