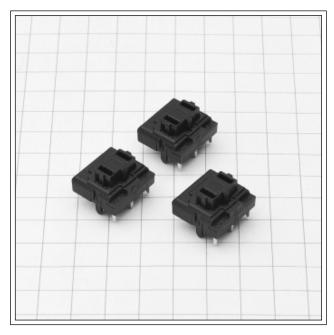
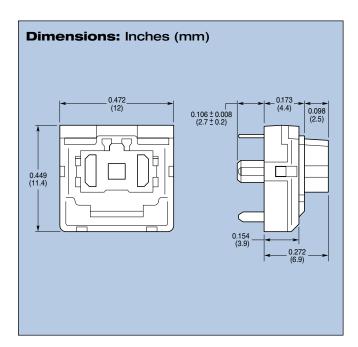




ML Notebook Profile





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Specifications

Voltage	12 VAC/DC max. 2 VDC min.
Current	10mA AC/DC max. 100µA DC min.
Insulation Resistance	100 M Ω at 100V
Bounce Time	≤5ms (at op. speed 0.4m/s)
Life	>20 million operations
Initial Contact Resist.	<200 m Ω (25 m Ω typical)
Materials Plastics Contacts Spring	Thermoplastic, UL-rated AuAg 10 Stainless steel
Flammability Rating	UL94HB
Solderability	Wave solder 5 seconds at 500°F
Environmental Operating Temp. Range Storage Temp. Range Relative Humidity	-10° to +70°C -40° to +70°C 5% to 95%, non-condensing

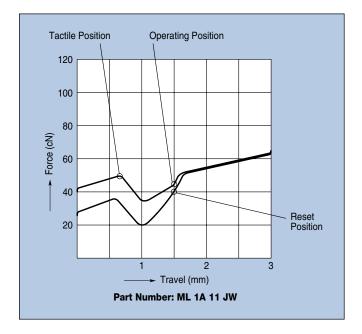
Mechanical Motion

Function	Normally open contact
Total Travel	0.118" -0.020"
Pretravel	0.059" ±0.020"
Initial Actuating Force	1.058 oz min.
Operating Force	$1.587 \pm 0.705 \text{ oz}$
Tactile Force	1.764 ± 0.705 oz
End force	Max. 2.998 oz, typical 2.469 oz





Force/Travel Diagram



Soldering Parameters

Foam Flux

v	2.3 m/min
•	2.0

- h Minimum height however the PCB must be moistened equaly with flux (the foam wave must not be "interrupted")
- Flux
- Density 0.84 g/cm

Pre-heating

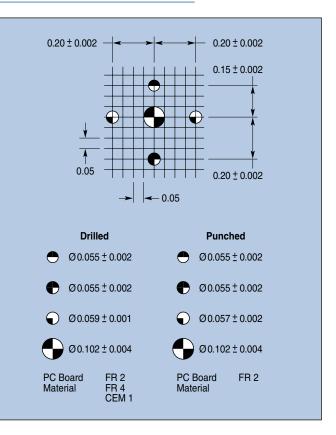
- v 2.3 m/min
- t 200° to 280°C (6 pre-heating plates; t increases regulary) on the PCB bottom side. A temperature of 80° to 85°C is being reached.
- h Distance between heating plate and PCB bottom side is approximately 66 mm.

Soldering

v	2.3 m/min
Sol<	6° to 7°

t 255° to 260°C (according to display)

Circuit Board Layout



Ordering Information

Part Number	Description
ML1A-11NW	Standard force, tactile, PCB mount
ML1A-11JW	Standard force, tactile, PCB mount, integrated jumper wire

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