

## Designed for Harsh Environments

The Xymox XyWeld® spacer involves a specialty adhesive bonded with a proprietary heat activated process to yield a spacer that is much more robust than a standard PSA.

XyWeld® is used to seal off, and completely protect the circuit on membrane switch applications that may be exposed to water, dust, extreme temperatures, and harsh cleaners.

### Physical Characteristics

- Life Cycles 1 million minimum non-tactile  
1 million minimum tactile (metal dome)
- Operating Force 10-20 oz typical non-tactile  
16-20 oz typical tactile
- Overall Thickness .040" typical

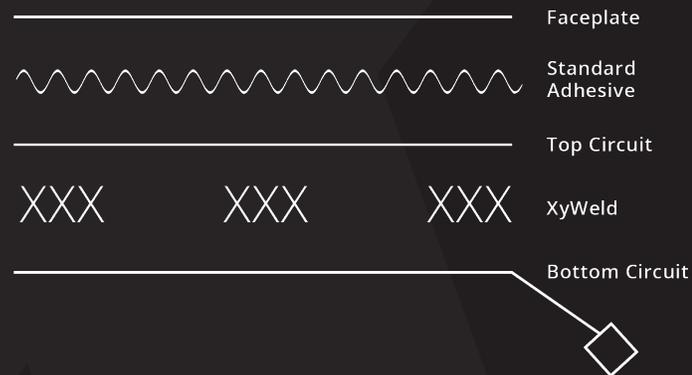
### Environmental Characteristics

- Operating Temp -40 to 70 C
- Storage Temp -40 to 70 C
- Humidity 95% RH

### Electrical Characteristics

- Contact Resistance 100 ohms max typical
- Open Circuit Resistance  $5 \times 10^6$  ohms minimum
- Contact Rating 30 VDC max,  
100 mA max, 1 watt max
- Contact Bounce 20 ms max
- Contact Material Silver to silver

### Typical Non-Tactile Construction



Test	Description	Duration	Test	Description	Duration
Cold Conditioning	-30C	168 hrs	Altitude	30" Hg to 3.5 Hg @ 1hr	3 cycles
Heat Conditioning	70C	168 hrs		3.5 Hg to 30" Hg @ 1hr	
Thermal Shock	40/70C (1 hour each temp)	10 cycles	Water	Immersed in Water	14 days
Moisture Resistance	Cycling from 65C/95% Rh to -20C no Rh	504 hrs	Cleaning Agent Sprays and General Purpose Cleaners	50/50 Windex/Fantastik Spray 5 times per day Oven temp 49C	90 days
Humidity	70C/95 Rh	168 hrs	Life Cycle	1,000,000 cycles	