

XYWELD® – 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® allows the use of membrane switches in applications which 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

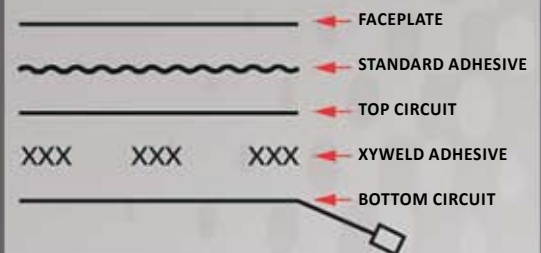
(see full test detail below)

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

ELECTRICAL CHARACTERISTICS

- Contact resistance 100 ohms max typical
- Open circuit resistance 5×10^6 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 @ 1 hr 3.5 Hg to 30" Hg @ 1 hr	3 cycles
Heat Conditioning	70C	168 hrs	Water	Immersed in Water	14 days
Thermal Shock	-40 / 70C (1 hour each temp)	10 cycles			
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	5 days
Steady State Heat / Rh	40C / 95%	504 hrs		409 Fantastik Lysol Bathroom Cleaner	90 days
Humidity	70C / 95% Rh	168 hrs		Life Cycle	1,000,000 cycles