

# MEMBRANE SWITCHES



(hmi)  
human machine interface

THE  
**HALL**  
COMPANY

## RAISING THE STANDARD OF TOUCH-INTERFACE

FOR MORE THAN 30 YEARS, THE HALL COMPANY® HAS LED THE WAY IN QUALITY MEMBRANE SWITCH TECHNOLOGY. FROM A SIMPLE CONCEPT TO THE MOST COMPLEX DESIGN, OUR TECHNICAL EXPERTS PROVIDE CUSTOM SOLUTIONS TO MEET YOUR SWITCHING NEEDS.

### PRODUCT FEATURES:

#### GRAPHIC LAYER:

- POLYESTER OR POLYCARBONATE WITH CUSTOM MATCHED COLORS
- FULL OR RING EMBOSING
- TRANSPARENT OR COLOR-ENHANCED LED AND DISPLAY WINDOWS

#### SUPPORT PANELS:

- ALUMINUM
- STEEL
- OTHER RIGID MATERIALS

#### CIRCUIT MATRIX:

- COMMON BUS
- MATRIX
- SPECIALIZED, MULTI-FUNCTION CIRCUITS

#### SHIELDING:

- ESD (CARBON, OR SILVER)
- EMI/RFI (SILVER OR ALUMINIZED)

#### TERMINATION:

- BERG, MALE OR FEMALE
- AMP, MALE OR FEMALE
- NICOMATIC
- SOLDER TABS
- ZIF (1 MM PITCH)

#### INSERT POCKETS: (FOR QUICK-CHANGE LEGENDS)

#### BACKLIGHTING:

- FIBER-OPTICS
- ACRYLIC LIGHT PIPE
- EL (ELECTROLUMINESCENT)

#### SURFACE-MOUNTED COMPONENTS:

- LEDs
- RESISTORS

#### PCB (PRINTED-CIRCUIT-BOARD)-BACKED SWITCHES

### TECHNICAL DATA:

- CLOSED CONTACT RESISTANCE: VARIES W/ CIRCUIT CONFIGURATION & SIZE (GENERALLY LESS THAN 100Ω)
- POWER: 1 WATT MAXIMUM)
- LIFE EXPECTANCY: 1 TO 5 MILLION ACTUATIONS (DEPENDENT UPON OPERATING ENVIRONMENT & METHOD OF ACTUATION)
- TEMPERATURE RANGE: STORAGE: -40°C TO 90°C / -40°F TO 194°F OPERATING: -20°C TO 70°C / -4°F TO 158°F

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PUSHING THE LIMITS OF TECHNOLOGY  
50th ANNIVERSARY 1961-2011

420 EAST WATER STREET, URBANA, OH 43078 U.S.A.

\*TOLL FREE: 800.441.4255 \*PHONE: 937.652.1376 \*FAX: 937.653.7447

VISIT US AT: WWW.HALLCO.COM