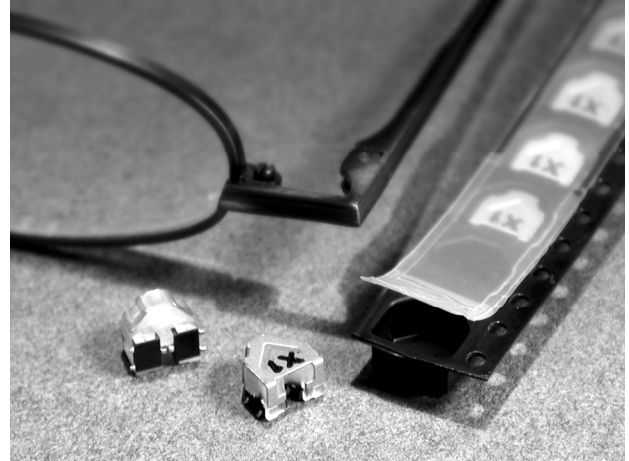


### Surface Mounting Tilt Switch Fits Space-Confined Installations

- Detect tilting over a range of 35 to 65 degrees in right-and-left inclination
- Gull wing surface mount terminals
- Wide operating temperature range: -10° to 60°C
- Ideal for PDAs, cell phones and test equipment; digital cameras and video cameras to change aspect ratio automatically; also replaces mercury switches in portable space heaters and game machines such as pinball games



### Ordering Information

Operation angle	Return angle	Output rating	Operating voltage	Part number
35° to 65°	60° to 30°	0.5 VDC	2.7 to 3.3 VDC	D6B

### Specifications

#### ■ RATINGS

Supply voltage ( $V_{dd}$ )	-0.1 to 5.0 VDC
Output current max. ( $I_{out}$ )	±1 mA max.
Operating temperature range	-10° to 60°C with no icing
Storage temperature range	-25° to 70°C
Operating/storage humidity	25% to 85% RH with no icing or condensation

#### ■ ELECTRICAL CHARACTERISTICS

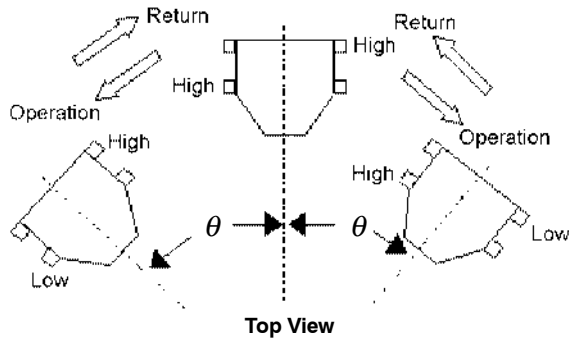
Operating voltage	2.7 to 3.3 VDC
Output high voltage	$V_{dd} - 0.5$ V min.
Output low voltage	0.5 V max.
Current consumption	20 $\mu$ A max.; 10 $\mu$ A typical ( $V_{cc} = 3$ )

#### ■ PERFORMANCE

Refer to the drawing on the following page for an operational diagram showing operation and return angles.

Operation angle	35° to 65° (when output goes from High to Low)
Return angle	60° to 30° (when output goes from Low to High)

# Operation

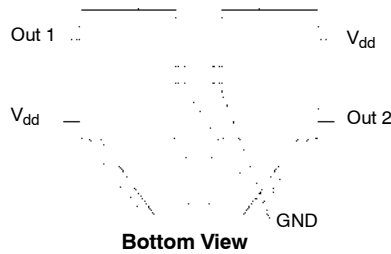


↓  
Gravity  
direction

- Note: 1. Operation angle: Output goes from High to Low
- 2. Return angle: Output goes from Low to High

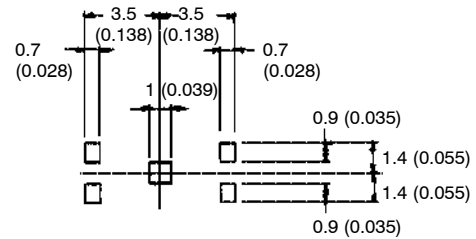
# Installation

## ■ TERMINAL ARRANGEMENT



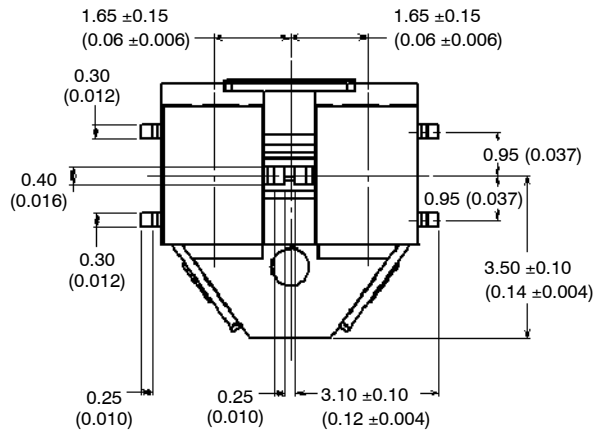
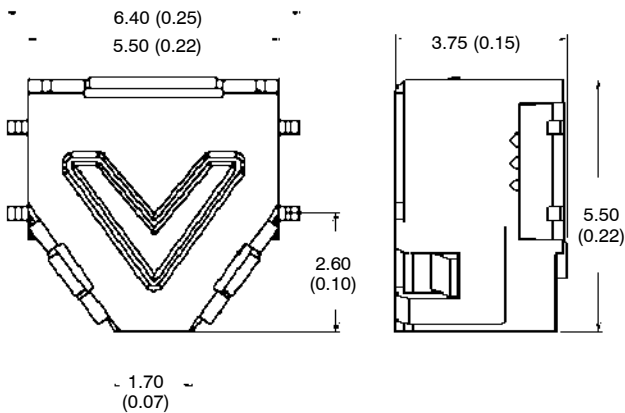
## ■ SOLDER PATTERN

Unit: mm (inch)



# Dimensions

Unit: mm (inch)



**NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.**

**OMRON**<sup>®</sup>  
**OMRON ELECTRONICS LLC**  
 One East Commerce Drive  
 Schaumburg, IL 60173  
**847-882-2288**

**OMRON ON-LINE**  
 Global - <http://www.omron.com>  
 USA - <http://www.omron.com/oei>  
 Canada - <http://www.omron.com/oci>

**OMRON CANADA, INC.**  
 885 Milner Avenue  
 Toronto, Ontario M1B 5V8  
**416-286-6465**