INSTALLATION INSTRUCTIONS FOR THE

32349407

Issue B

MICRO SWITCH HD1 SERIES BASIC SWITCHES HD1 SWITCHES

△ WARNINGIMPROPER INSTALLATION

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

© CAUTION SWITCH DAMAGE

- Wiring must be rated to meet or exceed circuitry requirements.
- Connecting circuitry must not exceed switch rating.
- Wiring connections must be properly secured.
- Do not exceed recommended soldering time or temperature.
- Do not contact switch housing with soldering device.
- Do not exceed recommended mounting screw tightening torques.
- Discontinue use if switch has been damaged or cover removed.
- Do not apply side loads to actuator or exceed specified travel limits.
- Do not operate or store in areas where corrosive gases such as hydrogen sulfide are present.

Failure to comply with these instructions could result in death or serious injury.

⚠ DANGERIMPROPER USE

DO NOT USE In hazardous environments where flammable or explosive gases or liquids such as gasoline or thinners, etc., are present.

Failure to comply with these instructions could result in death or serious injury.

GENERAL INFORMATION

MICRO SWITCH HD Series switches are precision snap-action contact mechanisms enclosed in molded plastic cases. Switch actuation triggers the mechanical closure of the switch's contacts. A small amount of arcing between the contacts during contact closure occurs during normal operation. In order to obtain desired switch performance, the switch must be chosen based on the mechanical, electrical and environmental conditions of the application.

HD Series switches are designed for use in a wide range of applications.

MOUNTING INFORMATION

- Position the operating device perpendicular to the actuator/pushbutton to prevent side loading of the switch actuator or pushbutton.
- Position the operating device so that no force is applied to the pushbutton/actuator when the switch is in the free (open) position.
- The operating device should be positioned so that when
 the switch is in the operating position it should move the
 actuator no less than 70 % of the total travel. Setting the
 travel position so that less than 70 % of the total travel is
 used may cause poor contact or welding conditions due to
 an insufficient contact switching force.
- The operating device should never force the actuator/ pushbutton to exceed the total travel position.
- For switches with angled terminals, insert an insulator separator between the switch body and the PC board (insulator separator thickness 0,2 mm to 0,4 mm [0.008 in to 0.016 in].

WIRING INFORMATION

- Connect wires firmly to terminals.
- Replace wires that have damaged insulation.
- Provide strain relief when a potential exists for forces to be transferred from the lead wires to the switch terminals.



SPNO CIRCUITRY

SPNC CIRCUITRY





SOLDERING GUIDELINES

When hand soldering switch terminals, do not exceed five seconds at 350° C [662° F]. Contacting the switch housing with the soldering device may damage the switch housing. Solder joints must not be moved for at least one minute after soldering.

When wave soldering, do not exceed five seconds at 260°C [500°F] or subject to aqueous wash. Use alcohol and swab to clean terminals. Use of no-clean flux is recommended.

ENVIRONMENTAL OPERATING CHARACTERISTICS

TABLE 2. OPERATING TEMPERATURE RANGE		
Terminal type	-40°C to 85°C [-40°F to 185°F]	
Wired type	UL1007/UL1061	-20°C to 80°C [-4°F to 176°F]
	UL1430	-20°C to 85°C [-4°F to 185°F]
	AVSS	-40°C to 85°C [-40°F to 185°F]

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

FOR MORE INFORMATION

Honeywell Advanced Sensing Technologies services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit sps.honeywell.com/ast or call:

USA/Canada +302 613 4491 Latin America +1 305 805 8188 Europe +44 1344 238258 Japan +81 (0) 3-6730-7152 Singapore +65 6355 2828 Greater China +86 4006396841



