Honeywell

50009357

ISSUE 1

Installation Instructions for the HIH-4000 Humidity Sensor

IMPROPER HANDLING

- Do not remove the sensor from its original protective packaging until it is ready to be installed.
- Do not touch the sensor surface. Use latex finger cots. Handle the sensor by its package edges or leads.
- Do not allow objects to enter the cavity of the sensor element.

Failure to comply with these instructions may result in product damage.

NOTICE

- Under condensing conditions where enough liquid water forms on the sensor to create a parasitic leakage path, the HIH-4000 Series Humidity Sensor produces an erroneous reading of 0 % humidity. If this erroneous reading is assumed to be correct by your control function, excess humidity is likely to be introduced into the system. Once the liquid water evaporates from the sensor and the environment returns to a non-condensing state, the device returns to normal functionality.
- Shade the sensor from direct light. Intense direct light can flood junctions in the CMOS (Complementary Metal Oxide Semiconductor) device and drive the output signal to the minimum. This does not harm the sensor or affect calibration. Proper operation resumes shortly after the direct light is removed. Ambient scattered light normally does not affect performance.



RECOMMENDED PCB MOUNTING

Catalog Listing	Mill-Max Socket Number
HIH-4000-001	310-93-132-41-001 or similar
HIH-4000-003	
HIH-4000-002	851-93-032-10-001 or similar
HIH-4000-004	

SOLDERING/ASSEMBLY

IMPROPER CLEANING

- Insert and solder the sensor after the PCB cleaning process.
- Clean sensor with isopropyl alcohol after soldering.

Failure to comply with these instructions may result in product damage.

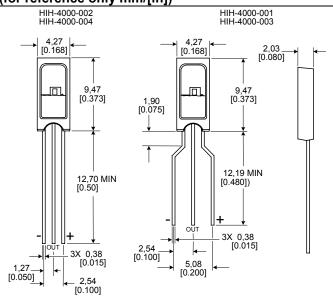
Hand soldering is recommended; however, if wave soldering is required, use a no-clean flux. Limit the contact of the flux to the leads only.

Recommended PC board wave soldering temperature is 250 $^\circ\!C$ to 260 $^\circ\!C$ [482 $^\circ\!F$ to 500 $^\circ\!F].$

MOISTURE SEALING THE LEADS

If, in the presence of intermittent moisture or other contaminants, there is the possibility of galvanic paths between the leads, moisture seal the leads.

MOUNTING DIMENSIONS (for reference only mm/[in])



HIH-4000 Series Humidity Sensor

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PERSONAL INJURY

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.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. 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 it 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 we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer 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 printing. However, we assume no responsibility for its use.

SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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