

INSTALLATION INSTRUCTIONS FOR THE HAZARDOUS LOCATION BASIC SWITCHES MICRO SWITCH V15W2 SWITCHES

32333029

Issue G



⚠ WARNING

PERSONAL INJURY WARNING

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.

STOP 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.

GENERAL INFORMATION

MICRO SWITCH V15W2 basic switches are precision snap-action contact mechanisms enclosed in plastic cases. Switch actuation triggers the mechanical closure of the switch's contacts. The switches are approved for use in Zone 2 hazardous locations. While a small amount of arcing occurs between the switch contacts during contact closure, the switch is environmentally sealed so that flammable gases cannot enter into the switching cavity. This minimizes the chances of ignition of flammable gases in a hazardous atmosphere. The IEC Ex approvals are as such: Ex ec nC IIA Gc for an operating temperature range of -25°C to +85°C per IEC 60079-0, IEC 60079-7 and IEC 60079-15 via certificate IEC Ex DEK 17.0053U.

The ATEX approval are as such: II 3 G Ex ec nC IIA Gc per EN IEC 60079-0, EN 60079-7 and EN IEC 60079-15 via ATEX certificate DEKRA 19ATEX0013 U. The UKCA certificate is DEKRA 21UKEX0271 U.

TABLE 1. MOUNTING INFORMATION

Mounting hole size	Screw type*	Screw size	Tightening torque (max.)
3,1 mm	Flat fillister head	3 mm	4,5 kg-cm [3.9 in-lb]
2,9 mm (-K option)	Flat fillister head	#4	4,5 kg-cm [3.9 in-lb]

*To prevent loosening of screws, use spring washers under screw heads and thread lock adhesive.

- Turn OFF the power supply before mounting or removing the switch, wiring, or performing maintenance or inspection. Failure to do so may result in electric shock.
- Switch must be mounted in an enclosure to prevent contact to live electrical parts and to protect the switch from exposure to ultraviolet light.
- Mount the switch onto a flat surface. Mounting on an uneven surface may cause deformation of the switch, resulting in faulty operation or damage.
- Use an operating device with low frictional resistance and of a shape that will not interfere with the plunger seal, otherwise the plunger may be damaged or the sealing may deteriorate.
- 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 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.

WIRING INFORMATION

- Connect wires firmly to terminals via appropriately sized mating receptacles or via soldering.
- Replace wires that have damaged insulation.
- Use wire rated for the application's electrical load and application's temperature.
- Provide strain relief when a potential exists for forces to be transferred from the lead wires to the switch terminals.

MICRO SWITCH HAZARDOUS LOCATION BASIC SWITCH V15W2 SERIES

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Honeywell

EU Attestation of Conformity

Honeywell International Inc. hereby declare that the products identified below conform to the essential requirements of the EU Directive(s) listed below and that the products supplied are in conformity with the type described in any Type Examination Certificate (TEC) identified below. This declaration is issued under the sole responsibility of the manufacturer.

Manufacturer: Honeywell Sensing and Control
1668 Tian Yin Road
Nanjing Science Park
Jiangning District
Nanjing 211100 China

Product: Basic Switch
V15W2 Series

<u>Directive (Amendments)</u>	<u>Conformity Details</u>
ATEX 2014/34/EU	Standards applied: EN IEC 60079-0:2018 EN 60079-7:2017 + A1:2018 EN IEC 60079-15:2019

TEC No: DEKRA 19ATEX0013U

Certification Body: DEKRA Certification BV,
Meander 1051, 6825 MJ Arnhem,
The Netherlands

ATEX Markings: II 3 G Ex ec nC IIA Gc

Note: For rating data, characteristics and instructions for incorporation into equipment, refer to Installation Instructions.

Signed on behalf of Honeywell International Inc.: 
Gene Ottes, Quality Manager Freeport, IL USA

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Original Issue Date: 2023

Honeywell

UK Attestation of Conformity

Honeywell International Inc. hereby declare that the products identified below conform to the essential requirements of the UK Directive(s) listed below and that the products supplied are in conformity with the type described in any Type Examination Certificate (TEC) identified below. This declaration is issued under the sole responsibility of the manufacturer.

Manufacturer: Honeywell Sensing and Control
1668 Tian Yin Road
Nanjing Science Park
Jiangning District
Nanjing
211100 China

Product: Basic Switch
V15W2 Series

<u>Directive (Amendments)</u>	<u>Conformity Details</u>
UKSI 2016:1107 (as amended)	Standards applied: EN IEC 60079-0:2018 EN 60079-7:2017 + A1:2018 EN IEC 60079-15:2019

TEC No: DEKRA 21UKEX0271U

UKEX Certification Body: DEKRA Certification B.V.,
Meander 1051, 6825 MJ Arnhem,
The Netherlands

UKEX Markings: II 3 G Ex ec nC IIA Gc

Note: For rating data, characteristics and instructions for incorporation into equipment, refer to Installation Instructions.

Signed on behalf of Honeywell International Inc.: 
Gene Ottes, Quality Manager Freeport, IL USA

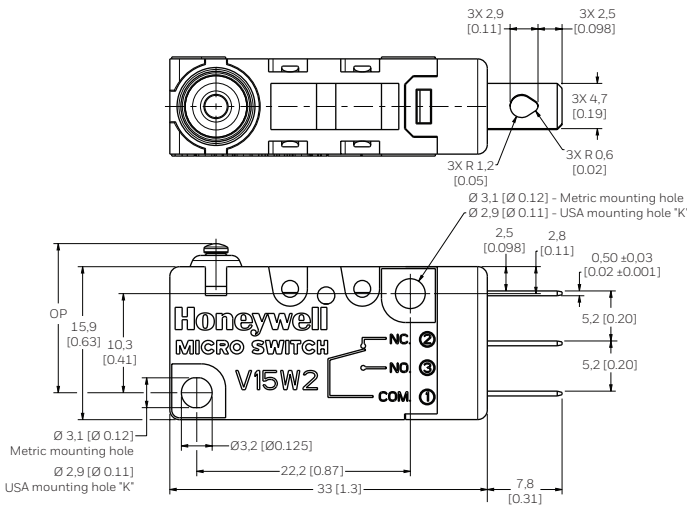
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MOUNTING AND CIRCUIT INFORMATION

Mounting dimensions shown below.

A circuit diagram is included on the switch case labeling each of the terminals. The normal position corresponds to the switch plunger in its released position.



SOLDERING GUIDELINES

When hand soldering the switch's 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.

Do not try to clean the switch with a solvent or similar substance after the soldering process.

SPECIFICATIONS

TABLE 2. SPECIFICATIONS	
Electrical rating	5 A (resistive), 125 Vac/250 Vac
Operating temperature range	-25°C to 85°C [-13°F to 185°F]
Rate of actuation (pin plunger)	0,1 mm/s to 1000 mm/s
Operating frequency (electrical)	25 operations/minute max.
Operating frequency (mechanical)	60 operations/minute max.
Temperature rise	Up to 3°C at max rated load

SCHEDULE OF LIMITATIONS

- The switch shall be mounted in an enclosure that provides a degree of protection of at least IP54 in accordance with EN IEC 60079-0 and EN IEC 60529.
- Creepage distances and clearance specifications at the terminals must be taken into account when making electrical connections. They shall fulfil the requirements of EN IEC 60079-7, Table 2.
- Mounting shall be in such a way that the switch is not susceptible to UV light.

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 Sensing and Safety 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:

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