Installation Instructions for the
MICRO SWITCH V15W2
Issue D
Basic Switch for Hazardous Locations

Table 1. Mounting Information

| Mounting <br> hole size | Screw type* | Screw size | Tightening <br> Torque (max.) |
| :--- | :--- | :--- | :--- |
| $3,1 \mathrm{~mm}$ | Flat fillister <br> head | 3 mm | $4,5 \mathrm{~kg}-\mathrm{cm}$ <br> $[3.9 \mathrm{in}-\mathrm{lb}]$ |
| $2,9 \mathrm{~mm}$ <br> $(-\mathrm{K}$ option) | Flat fillister <br> head | $\# 4$ | $4,5 \mathrm{~kg}-\mathrm{cm}$ <br> $[3.9 \mathrm{in}-\mathrm{lb}]$ |

*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.
- Replace wires that have damaged insulation.
- Use properly sized receptacles.
- 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


## 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 $350^{\circ} \mathrm{C}$ [662 ${ }^{\circ} \mathrm{F}$ ]. 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 <br> temperature range | $-25^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ <br> $\left[-13^{\circ} \mathrm{F}\right.$ to $\left.185^{\circ} \mathrm{F}\right]$ |
| Rate of actuation | $0,1 \mathrm{~mm} / \mathrm{s}$ to $1000 \mathrm{~mm} / \mathrm{s}$ |
| Operating frequency <br> (electrical) | 25 operations/minute max. |
| Operating frequency <br> (mechanical) | 60 operations/minute max. |

## SCHEDULE OF LIMITATIONS

The voltage, current, mechanical mounting, connections, creepage, and clearance distance specifications must be as per the instruction manual.

The switch body shall be installed using a protective cover providing resistance to impact according EN/IEC 60079-0 clause 26.4.2 table 13 (after thermal endurance tests according to clause 26.7 for relevant non-metallic cover) for equipment grouping II and classification high risk for mechanical danger for protective covers.

The electrical termination of the device installed in the application shall have a suitable enclosure providing a degree of protection of at least IP54 according to EN/IEC 60079-15 clause 6.3. Creepage distances and clearance specifications at the terminals must be taken into account when making electrical connections. Reference table 2 of EN/IEC 60079-15.

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