Safety instructions and recommendations for the SNAP buckle flat 25 electrified

We recommend:

- providing another, different, connected signal medium (acoustic or tactile) in the overall system for safety applications in addition to the LED in the buckle. This makes the normal activation of a system by the buckle and possible malfunctions more recognisable for users. If the LED is used independently of the buckle status, we instead recommend incorporating two different signal media in the overall system that communicate the buckle status to the user (visual/tactile/audible).

- monitoring the internal resistance of the buckle to detect in time possible damage to the buckle or cable and warn users.

- attaching the male part as close and tight as possible to your product, to avoid damage caused by swinging and spinning of the buckle. This also prevents the unintentional connection of both parts of the buckle (male part and female part).

- using a separate switch for the entire system since the buckle as a digital switch permanently consumes a small amount of power.

- providing a separate switch for the entire system since during assembly, both the closed or open buckle and an unconnected plug could activate or deactivate an entire system until the final assembly.

Avoid:

- temperatures outside the range of -20 to 60 °C and shocks or blows to the buckle during the manufacturing, transport, storage and later use; this could damage or destroy the installed reed switch or other components and thereby lead to malfunction of the entire system. Attention: this could be a security risk for users!

- tension on the cable and its connections and falling below the minimum bending radius (25mm) to prevent cable ruptures.

- extraneous magnets or metallic objects close to the buckle to prevent unintentional activation and deactivation.

- using the buckle as the main switch for the entire system. This prevents deactivation or activation of the entire system should the buckle parts (male and female part) engage unintentionally.

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We explicitly point out that:

- the (CC) version of the buckle may not be used for safety applications. Using the (CC) buckle for safety applications does not correspond with the proper use and can lead to malfunctions, damage or injuries. We assume no liability for any damage caused by improper use.

- exceeding the operating voltage of 5V or the maximum permissible electrical current of 500mA can damage or destroy components of the circuit. This could lead to a partial or complete failure of the system. We assume no liability for any resulting damage.

- falling below the cable's bending radius of 25mm could damage the isolation and/or the internal conductor. This could lead to a short circuit or a partial or complete failure of the system. We assume no liability for any resulting damage.

- if used e.g. as a chest strap or the like, the magnets in the buckle can lead to problems with electronic implants such as pacemakers or defibrillators. This must also be indicated on the final product. We assume no liability for failure to comply with this duty of disclosure and any resulting damage.

Before ordering, make sure that you have the latest edition of the safety instructions and recommendations.

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