3. The F3SJ-E/B is in conformity with the following standards:

6. The F3SJ-E/B is designed according to the standards listed below. To make follow all precautions and alerts may result in an unsafe use or operation. Buyer shall take application responsibility in all cases.

Omron Companies shall not be responsible for conformity with any related standards, laws, and regulations. If you have any questions, consult UL AOPD from the EU accredited body, TÜV SÜD Product Service GmbH.

(1) European standards

American National Standards: ANSI/RIA 15.06
American National Standards: ANSI B11.1 to B11.19

EN ISO 13849-1:2008 (Category 4, PL e)
EN 61508-1 through -3 (SIL3), EN 61000-6-4,
EN 50178.1, UL 1998, CAN/CSA C22.2 No.14, CAN/CSA C22.2 No.08

PRECAUTIONS FOR SAFE USE

Failure to do so may hinder detection, resulting in serious injury.

For Installation

Install a protective structure so that the hazardous part of a machine can only be complete. Unintended function settings may cause a person to go undetected even if F3SJ-B is out of order, resulting in serious injury.

If the product is housed in a box, confirm it is powered on. Install muting sensors so that they can distinguish between the object that is being processed and other objects. Consult the User’s Manual.

Do not use the F3SJ-E/B in environments where flammable or explosive gases are present. Doing so may cause the safety functions to stop working properly.

Do not use this product as a “safety system for pressing or shearing machines” which may cause a person to go undetected, resulting in serious injury.

Position with retro-reflection

Position with detection zone

Detecting beam on the detection zone, the system might go into “Mute” mode for the specified time even if the F3SJ-E/B is still working. 

If the system is set to “Mute” mode, other safety devices may not be able to detect a person.

For Wiring

Short-circuit the external device monitoring input to the auxiliary output.

Perform wiring for interlock select input and reset input as follows.

PRECAUTIONS FOR USE

Do not use the F3SJ-E/B in the following types of environmental conditions:

- Anywhere with high humidity where condensation is likely to occur
- Anywhere with dust or abrasive gases or powder present

- Anywhere with temperature higher than 50°C (122°F) or lower than 0°C (32°F)

- Anywhere with relative humidity greater than 95% RH

- Anywhere with excessive vibration

- Anywhere with electrical interference

- Anywhere with ammonia gas

- Anywhere with hydrochloric acid gas

- Anywhere with phosgene gas

- Anywhere with tetrachloroethylene

- Anywhere with triethylene glycol

- Anywhere with wastewater

- Anywhere with oil mist

- Anywhere where condensation may occur

- Anywhere where water is splashing

- Anywhere in a hazardous atmosphere

- Anywhere where the power supply may be interrupted

- Anywhere where metal dust is present

- Anywhere where there is a risk of fire

- Anywhere where a high water pressure is present

- Anywhere where there is a risk of lightning

- Anywhere where there is a risk of explosion

- Anywhere where there is a risk of water ingress

- Anywhere where there is a risk of overvoltage

- Anywhere where there is a risk of short-circuiting

Storing, installing, programming, operating, maintaining, or disposing of the products. Please consult your OMRON

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