

Hazardous Location Actuators

Product mounting, set up, and installation notes specific to Hazardous Location Actuators.

Operation and maintenance of a hazardous location actuator is the same as for an ordinary location actuator with the following amendments:

1. ONLY install a hazardous location actuator in a hazardous location for which the actuator was designed. The actuator is clearly marked with the classification for which it was designed and tested.
2. Mount, calibrate, and test actuators only during non-hazardous conditions.
3. Do NOT operate in ambient temperatures above +125° F (+52° C).
4. Do NOT, under any circumstances, remove the cover of the actuator while in a hazardous location with power still present inside the actuator. This could cause ignition of a hazardous atmosphere.
5. After removal of the cover care must be taken not to scratch, chip, or deform the mating surfaces of the cover and base of the actuator (see photos at right). Deformation to these surfaces negates the hazardous location rating of this actuator and the actuator should be removed from hazardous location service.
6. Mating surfaces of the cover and base must be cleaned before replacing cover. When replacing the actuator cover, carefully align the two pins (non-removable) embedded in the lower housing with the corresponding holes in the top housing. Fully seat the cover before tightening the cover bolts to avoid damaging the cover.
7. After securing the cover back onto the actuator there should be NO gaps larger than 0.003 in. (0.08mm) between the cover and the base of the actuator. This can be checked by a 0.003 in. thick by 1/2 in. wide feeler gauge which may not enter between the two faces more than 1/8 of an inch.
8. All electrical connections must be to national, state, and local codes and in accordance with hazardous location specifications for which this actuator is to be used.
9. Reducers, glands, and/or conduit must be appropriately certified to be used in hazardous locations.
10. To reduce the risk of ignition of hazardous atmospheres, an appropriately certified sealing fitting, cable gland or plug must be directly connected to the enclosure.
11. An unused conduit port must be sealed with an appropriately certified threaded blanking plug.
12. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

Class I, Division 1, Groups C, D
Class II, Division 1, Groups E, F, G
Class III; T6

Ex d IIB Gb T6; Ex tb IIIC T85°C Db
Class I, Zone 1, AEx d IIB Gb T6
Zone 21, AEx tb IIIC T85°C Db

CAUTION: To reduce the risk of ignition of hazardous atmospheres, disconnect the equipment from the supply circuit before opening. Keep assembly tightly closed when in operation. WARNING: To reduce the risk of ignition of hazardous atmospheres, an appropriately certified sealing fitting, cable gland or plug must be directly connected to the enclosure.

ATTENTION! Pour réduire le risque d'inflammation des atmosphères dangereuses, démontez l'équipement du circuit d'alimentation avant de l'ouvrir. Maintenez l'assemblage bien fermé lors de l'utilisation. MIS EN GARDE! Pour réduire le risque d'inflammation des atmosphères dangereuses, un joint d'étanchéité, un presse-étoupe ou une prise dûment certifié doit être lié à l'encastrement.

Plate found on actuator



Alignment pins/holes (refer to note 6) Mating Surfaces (refer to note 5, 6)



Feeler Gauge (refer to note 7)

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