
NEPSI Hazardous Area Approvals Fisher™ 846 Current-to-Pressure Transducer

This supplement provides NESPI Hazardous Area Approval information for the 846 current-to-pressure transducer instruction manual. Use this in conjunction with information provided in the 846 instruction manual ([D102005X012](#)).

NEPSI—National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation. NEPSI approval is accepted in China.

Certain nameplates may carry more than one approval, and each approval may have unique installation/wiring requirements and/or conditions of “safe use”. These special instructions for “safe use” are in addition to, and may override, the standard installation procedures. Special instructions are listed by approval. Refer to the instruction manual for all other information regarding the 846 current-to-pressure transducer.

Note

This information supplements the nameplate markings affixed to the product.

Always refer to the nameplate itself to identify the appropriate certification.

▲ WARNING

Failure to follow these conditions of “safe use” could result in personal injury or property damage from fire or explosion, and area re-classification.

Intrinsically Safe

Cert NO. GYJ17.1220

Ex ia IIC T5/T4 Ga

Special Conditions for Safe Use

The suffix “X” placed after the certificate number indicates that this product is subject to special conditions for safe use, that is:

1. For EPL Ga applications, at the metallic parts of the products made of light metal there is a danger of ignition by impact or friction.
2. The enclosure poses a potential electrostatic hazard, do not rub or use solvents, clean only with a damp cloth.

Conditions for Safe Use

1. The external earth connection facility shall be connected reliably.
2. The relationship between temperature class and ambient temperature range is shown as the following:

Temperature Class	T5	T4
Ambient Temperature Range	-40°C ~ +40°C	-40°C ~ +80°C

3. This product should be used in explosive gas atmospheres together with approved associated apparatus, follow the instruction manual of this product and associated apparatus when connecting the wiring. Connect the wiring terminals correctly.
4. Intrinsically safe input parameters:
 $U_i = 40 \text{ VDC}$, $I_i = 200 \text{ mA}$, $P_i = 1.0 \text{ W}$, $C_i = 8 \text{ nF}$, $L_i = 20 \text{ } \mu\text{H}$
5. Connecting cable between this product and associated apparatus should be insulated screen cable; connect the cable screen functionally to earth ground at safe area.
6. The user shall not change the configuration in order to maintain/ensure the explosion protection performance of this product. Any change may impair safety.
7. For installation, use and maintenance of this product, the end user should observe the instruction manual and the following standards:

GB50257-2014: “Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering”.

GB3836.13-2013 “Explosive atmospheres - Part 13: Equipment repair, overhaul and reclamation”.

GB3836.15-2000: “Electrical apparatus for explosive gas atmospheres Part 15: Electrical installation in hazardous area (other than mines)”.

GB3836.16-2006: “Electrical apparatus for explosive gas atmospheres Part 16: Inspection and maintenance of electrical installation (other than mines)”.

GB3836.18-2010 “Explosive atmospheres-Part 18: Intrinsically safe system”

Flameproof

Cert NO. GYJ17.1219X

Ex d IIB T6/T5 Gb

Special Conditions for Safe Use

The suffix “X” placed after the certificate number indicates that this product is subject to special conditions for safe use, that is:

1. For information on the dimensions of the flameproof joints contact the manufacturer.
2. The maximum system pressure shall not exceed 35 psi.

Conditions for Safe Use

1. The external earth connection facility shall be connected reliably.
2. The relationship between temperature class and ambient temperature range is shown as the following:

Temperature Class	T6	T5
Ambient Temperature Range	-40°C ~ +65°C	-40°C ~ +80°C

3. Electrical data:
Max. voltage: 12 VDC; Max. Current: 100 mA.
4. For the cable entry (1/2 NPT), appropriate cable gland and stopping plug which is approved by EXTL in accordance with GB3836.1-2010 and GB3836.2-2010 with at least Ex d IIB Gb shall be used. The connection cable, cable gland and stopping plug to be used shall be suitable for the product working conditions.
5. Obey the rules “Do not open when energized” or the area known to be non hazardous.
6. The user shall not change the configuration in order to maintain/ensure the explosion protection performance of this product. Any change may impair safety.
7. For installation, use and maintenance of this product, the end user should observe the instruction manual and the following standards:

GB50257-2014: “Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering”.

GB3836.13-2013 “Explosive atmospheres-Part 13: Equipment repair, overhaul and reclamation”.

GB3836.15-2000: “Electrical apparatus for explosive gas atmospheres Part 15: Electrical installation in hazardous area (other than mines)”.

GB3836.16-2006: “Electrical apparatus for explosive gas atmospheres Part 16: Inspection and maintenance of electrical installation (other than mines)”.

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