



4B Components Limited

Dust Hazard Approvals US and Canadian Markets

There are numerous approval bodies in the US market whom list products for use in either the US and the Canadian markets such as ETL, CSA, UL (A list of current NRTL's recognized by OSHA can be found at the following link: <https://www.osha.gov/dts/otpca/nrtl/nrtllist.html>).

Since the requirements and tests are country specific it is important to check that the sensors or controls that are being used are listed and therefore safe for use in the hazardous location and country where they are being installed. If not, then you may be instructed by the local electrical inspector to remove any that are not correctly listed and face additional fines or penalties. Check with your supplier prior to purchase and check any that are already installed.

A quick 4 step guide is provided below:

Step 1:

Ensure that the product is listed for the correct country of installation.



*Canada Only.
Must Not Be
Installed In US*



*US Only.
Must Not Be
Installed In
Canada*



*Approved for
US and Canada*

Step 2:

Ensure that the product is appropriate for the particular hazardous environment

Class I - GAS HAZARD ONLY. NOT FOR USE IN DUST HAZARD

Class II - DUST HAZARD ONLY. NOT FOR USE IN GAS HAZARD

Class I, II - BOTH GAS AND DUST HAZARD

Step 3:

Ensure that the product is appropriate for the particular hazardous location/division.

Division 1 - Hazardous condition (Dust or Gas) is present under normal conditions. For use in both Division 1 and Division 2 locations.

Division 2 - Hazardous condition (Dust or Gas) is present only under abnormal conditions. For use in Division 2 locations ONLY.

Step 4:

Ensure that the product is appropriate for the particular combustible dust

Group E - Metal Dust

Group F - Coal Dust

Group G - Grain Dust (typical dusts include: flour, starch, grain, wood, plastics)