Power Supply RSD2-PSD2-Ex4.34





- 4 intrinsically safe power supply channels
- Intrinsically safe outputs: Ex ib IIC
- Installation in the Ex-area: Ex de [ib] IIC T4
- Contained in an explosion-protected, pressure-tight encapsulated housing (Ex d) with external connection terminals for increased safety (Ex e) in a separate terminal compartment
- Device installation in Zone 1, Zone 2, or Zone 22

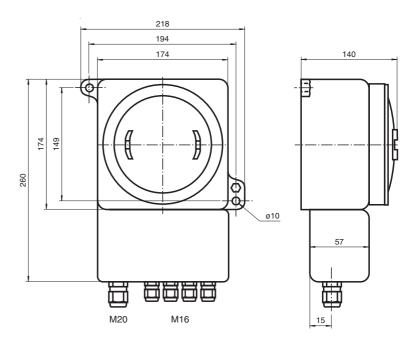
Function

This power supply unit can be installed directly in hazardous areas. It has four (4) intrinsically safe output channels. The power supply unit is kept in an explosion-protected, flameproof encapsulated housing. For increased safety, the external connections are kept in a separate terminal box for the following connections:

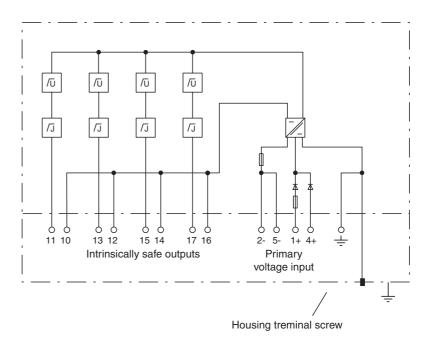
- 1. Primary voltage input
- 2. Redundant primary voltage input
- 3. Intrinsically safe power supply outputs

The input and output voltage are galvanically separated from each other. The outputs have no galvanic separation from each other.

Dimensions



Connection



Notes

Ex e input:

The PE conductor of the cable must **not** be connected with the terminals or housing of the power stage. The potential equalisation lead **must** be connected with the housing.

The Ex e input has an M20 screwed connection and can receive cables from 6 mm to 12 mm in diameter. The Ex e terminals receive cables of max. 1 x 2.5 mm² or 2 x 1 mm². The maximum current for these terminals is 23 A. The input is protected by a 5 A fuse.

Ex i output (9 V DC):

The Ex i outputs have M16 screwed connections and are suitable for cables of from 4 mm to 8 mm in diameter.

Maximum cable length:

- 3.5 m (1.5 mm²)
- 5.9 m (2.5 mm²)