



- 4 intrinsically safe power supply channels
- Output power 8.5 W per channel
- Doubled terminals for looping through the input voltage
- Contained in an explosion-protected, pressure-tight encapsulated housing (EEx d) with external connection terminals for increased safety (EEx e) in a separate terminal compartment
- Installation in the Ex-area:
EEx de [ib] IIC T4
- Intrinsically safe outputs:
EEx ib IIC

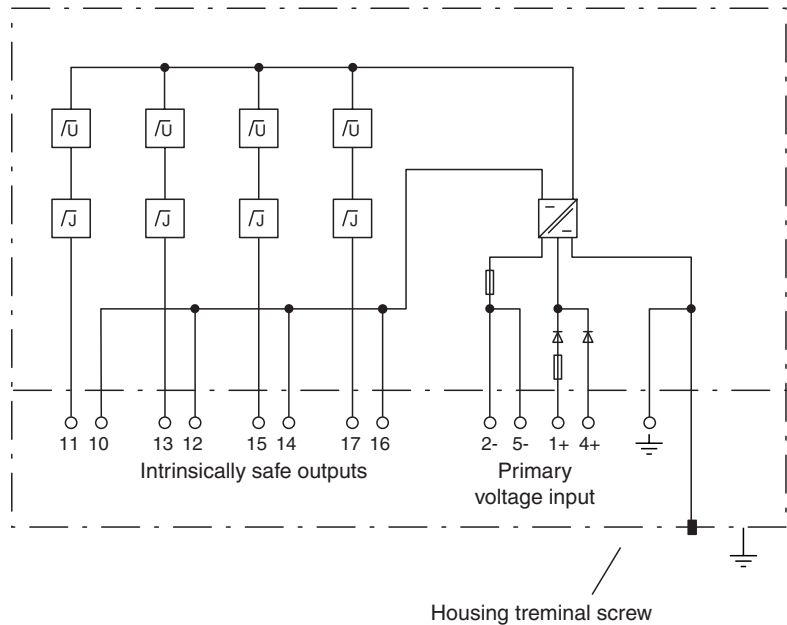
Function

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:

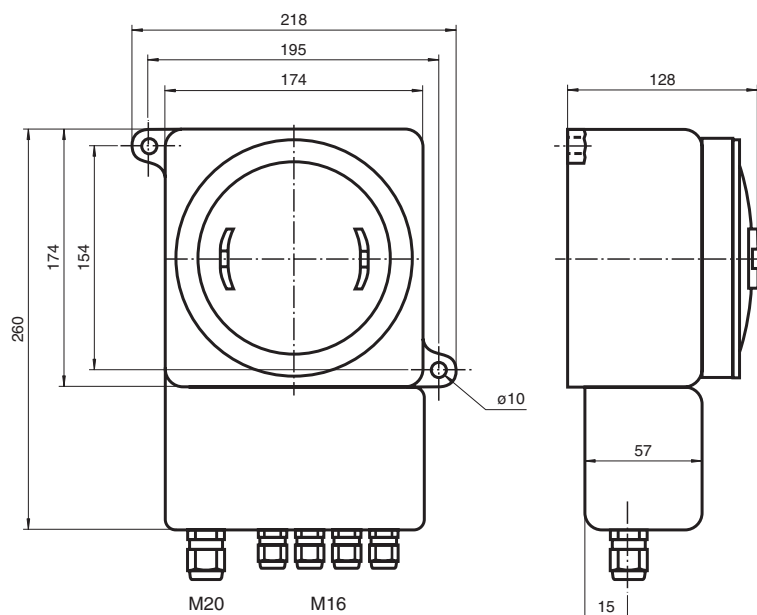
1. Primary voltage input
2. Redundant primary voltage input
3. Intrinsically safe power supply outputs

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

Connection



Composition



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Supply	
Connection	terminals 1+, 4+; 2-, 5-, PE
Rated voltage	18 ... 32 V DC
Ripple	5 % AC
Power loss	21 W
Power consumption	55 W
Output	
Connection	terminals 10+, 12-, 14+, 16+, 11-, 13-, 15-, 17-
Voltage	8.7 ... 9.5 V DC
Power	8.5 W per channel
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EEC	EN 61326
Standard conformity	
Insulation coordination	EN 50178
Ambient conditions	
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature	-20 ... 100 °C (-4 ... 212 °F)
Mechanical specifications	
Connection type	Terminals
Core cross-section	≤ 2.5 mm ²
Protection degree	IP65
Mass	5360 g
Mounting	panel mounting
Tightening torque of clamping screws	0.4 Nm
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	
Group, category, type of protection	Ⓔ II 2G EEx de [ib] IIC
Temperature class	T4
Certificate of conformity	BVS 98.D.2017X
Supply	
Maximum safe voltage U _m	40 V DC
Output	
Voltage U _o	9.5 V
Current I _o	1 A
Power P _o	9.5 W
External capacitance C _o	800 nF
External inductance L _o	10 μH
Electrical isolation	
Output/power supply	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
Output/Output	no electrical isolation

Notes**EEx 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 EEx e input has an M20 screwed connection and can receive cables from 6 mm to 12 mm in diameter. The EEx 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 (safe triggering of fuse at 8.5 A in accordance with EN 50019). If an EEx e distributor box is used, a maximum of 2 power supplies can be operated via the EEx e terminals of this box.

EEx i output (9 V DC):

The EEx 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)