

The PSD24Ex module supplies the excom® system with power to the full extension. A combined protection rating of Ex-m, Ex-e and Ex-i enables application in zone 1. It is also fully potted and installed in a die-cast aluminium frame.

The PSD24Ex supplies 24 VDC.

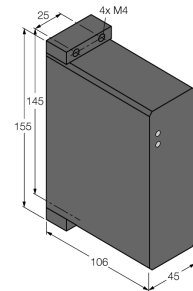
The external power supply is plugged on the module rack via Ex-e clamps. Any contact with the clamps in energized state should be avoided. They are located below the protective cap. Power has to be switched off before contact.

Redundancy:

Two power supply units can be installed with an appropriate module rack. In case of power cut or failure of one device, the second unit provides the power for the whole system. Different potentials can be used for power supply.



- DC power module for supply of a fully assembled module rack in zone 1

Dimensions

Type code	PSD24EX
Ident no.	6881721
Supply voltage	
Nominal voltage	24 VDC
Operating voltage range	19.2...32 VDC
Power consumption	≤ 66.5 W
Power supply output	≤ 60 W
Galvanic separation	Galvanically separated input and output circuit, rated voltage 60 V
Ex approval acc. to conformity certificate	
Device designation	PTB 00 ATEX 2193 Ⓔ II 2 G Ex eb mb [ib] IIC T4
Indication	
Operational readiness	1 x green
Supply voltage	1 x green
Electrical connection	
Terminal cross-section	via backplane 2.5 mm ² flexible / 4.0 mm ² rigid
Housing material	Aluminium
Connection mode	flange, 4 x M4 screws
Protection class	
Ambient temperature	IP50 -20...+70 °C
Relative humidity	≤ 95% at 55 °C acc. to EN 60068-2
Vibration test	acc. to IEC 60068-2-6
Shock test	acc. to IEC 60068-2-27
EMC	acc. to EN 61326-1 (2006) acc. to Namur NE21 (2007)
MTTF	78 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	45x 155x 106 mm
Weight	1275 g