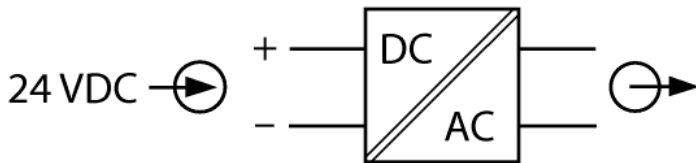


excom I/O System

Power Supply Module, 24 VDC, Zone 1

PSD24EX



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

Powered with 24 VDC. The external power supply is hooked up to Ex e clamps at the module rack. These clamps located under a closure cap must not be plugged or unplugged under power. Interventions are only allowed after switching off the respective supply voltage.

Redundancy:

Two power supply units can be installed in combination with a suitable 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 supplied.

- DC power supply module, supplies a fully assembled module rack in zone 1

Dimensions

| | |
|-------------------------|--|
| Type | PSD24EX |
| ID | 6881721 |
| Nominal voltage | 24 VDC |
| Operating voltage U_o | 19.2...32 VDC |
| Power consumption | ≤ 66.5 W |
| Output power | ≤ 60 W |
| Galvanic isolation | Galvanically isolated input and output circuit, rated voltage 60 V |

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|--|------------------------------------|
| Ex approval acc. to conformity certificate | IECEX PTB 13.0039 |
| Ex approval acc. to conformity certificate | PTB 00 ATEX 2193 |
| Device designation | Ⓔ II 2 G Ex e mb [Ib Gb] IIC T4 Gb |

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|-----------------------------|-----------|
| Displays/Operating elements | |
| Operational readiness | 1 × green |
| Supply voltage | 1 × green |

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|------------------------|--|
| Electrical connection | Via module rack |
| Terminal cross-section | 2.5 mm ² flexible/4.0 mm ² rigid |

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|---------------------|--|
| Housing material | Aluminium |
| Connection mode | Flange, 4 x M4 screws |
| Protection class | IP50 |
| Ambient temperature | -20...+70 °C |
| Relative humidity | ≤ 93 % at 40 °C acc. to IEC 60068-2-78 |
| Vibration test | Acc. to IEC 60068-2-6 |
| Shock test | Acc. to IEC 60068-2-27 |
| EMC | Acc. to EN 61326-1 Acc. to Namur NE21 |
| MTTF | 78 years acc. to SN 29500 (Ed. 99) 40 °C |
| Dimensions | 45 x 155 x 106 mm |

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| Approvals | ATEX cFMus cFM IECEX CCC INMETRO KOSHA EAC Ex DNV GL BV LR KR KCC UKCA CE |
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