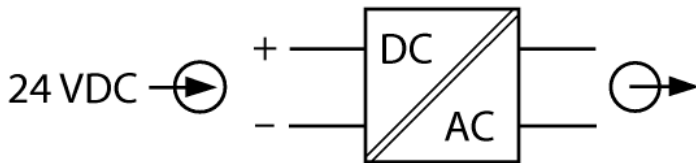


excom I/O System

Power Supply Module, 24 VDC, Zone 2

PSM24-3G.1



The PSM24... power supply module supplies the excom system with power to the full extension. The power supply module can be used in Zone 2.

Powered with 24 VAC. The external power supply is hooked up to Ex e clamps at the module rack. Any contact with the clamps in energized state should be avoided. They are located below a closure cap. Switch off power before contact.

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.

PSM24-3G compatibility mode:

The PSM24-3G can be replaced by the new PSM24-3G.1 or both can be operated in parallel on a module rack.

Important note:

When changing from the PSM24-3G to the new PSM24-3G.1, the knurled screw must be removed from the module rack. The PSM24-3G.1 is switched on and de-energized using the provided locking clip PSM24-LC.

IoT mode:

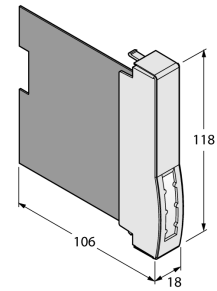
In IoT mode, additional data can be provided. The PSM24-3G.1 power supply module cannot be operated in compatibility mode in this scenario. Evaluation is carried out via the excom Ethernet gateway GEN-... with a firmware version $\geq 1.5.2.0$. The following data is provided: power supply module available; maintenance recommended acc. to NE107; output current too high; actual input voltage; input voltage undershot or overshoot; lowest input voltage; highest input voltage; operating hours counter; expected remaining lifetime.



- DC power supply module, supplies a module rack in Zone 2
- Switch on/de-energize using the provided locking clip PSM24-LC
- The knurled screw must be removed from the module rack!

Dimensions

Type	PSM24-3G.1
ID	100026210
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 40 V
Ex approval acc. to conformity certificate	IECEX PTB 18.0044X
Ex approval acc. to conformity certificate	PTB 12 ATEX 2009
Device designation	Ex II 3 (2) G Ex ec nC ic [ib Gb] IIC T4 Gc
Displays/Operating elements	
Operational readiness	1 × green
Error indication	1 x red
Electrical connection	
Electrical connection	Via module rack
Terminal cross-section	2.5 mm² flexible/4.0 mm² rigid
Housing material	
Housing material	Plastic
Connection mode	module, plugged on rack
Protection class	IP20
Ambient temperature	-40...+70 °C
Storage temperature	-40...+85 °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	46 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 106 mm
Approvals	
ATEX	
cFMus	
cFM	
IECEX	
KOSHA	
UKCA	
CE	



Accessories

Type code	Ident-No.		Dimension drawing
PSM24-LC	100038122	The locking cap is used to activate the circuits and prevents the power supply module PSM24 from being disconnected when energized.	