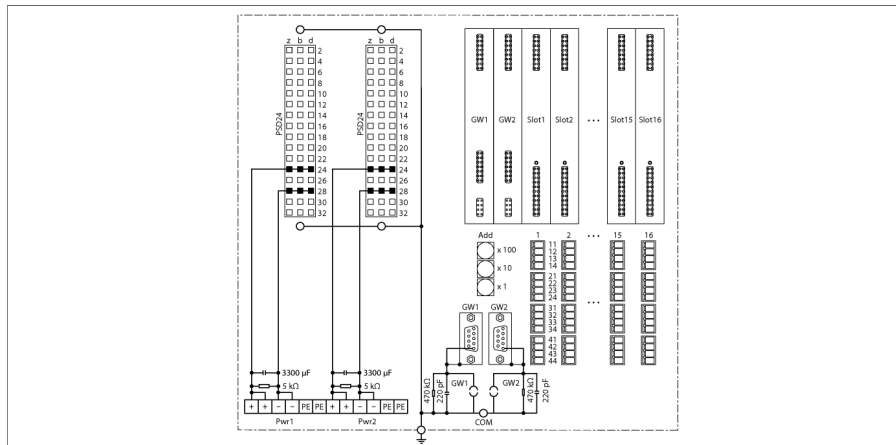# excom I/O System
Module Rack, Zone 1, for 16 Modules, Marine Ship Approved
MT16-2G/MSA

The module rack MT16-2G/MSA consists of a backplane and the actual rack system. It can accommodate 2 gateways, 2 power supply units as well as 16 I/O modules. Up to 128 binary inputs/outputs or 64 analog inputs/outputs resp. a mix of both can be connected to it.

All modules can be plugged and unplugged under power without interrupting the data transmission. The same applies to redundant gateways and power supply modules.
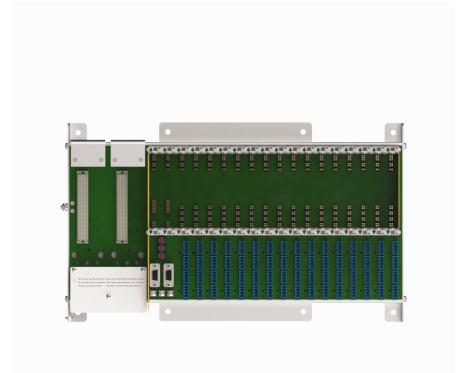
The module rack is designed in a combined protection rating of Ex e and Ex i and can therefore be used in zone 1.

The power supply of modules on the backplane is limited to prevent sparking. This allows you to pull and plug modules in powered state with *excom*® mounted in zone 1.
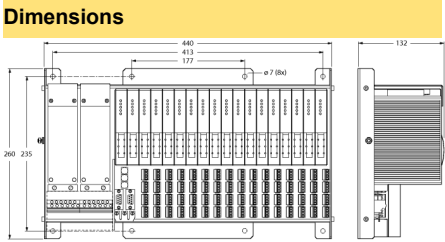
The rack system is made of continuously cast aluminum. This ensures increased stability and shielding. The module rack is suited for switch cabinet and 19" rack mounting.

The module rack MT16-2G/MSA is especially adapted to the requirements for maritime applications. It is certified acc. to the ship classes GL, DNV, BV and LR.
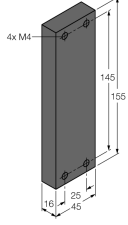
- Module rack for max. 16 I/O modules, 2 gateways and 2 power supply modules
- The terminals for the signal connection level are available as accessories
- Module rack approved for maritime applications (certification according to GL, DNV, BV and LR)

Dimensions

Type	MT16-2G/MSA
ID	9100688

Ex approval acc. to conformity certificate	IECEx PTB 13.0040 U
Ex approval acc. to conformity certificate	PTB 00 ATEX 2194 U
Device designation	⟨Ex⟩　II 2 (1) G　Ex eb ib [ia] IIC T4

Slots	
DC power supply	2
Gateway	2
Block I/O	16

Terminal cross-section	1.5 mm²

Electrical connection	4 × 4 clamps per module
Bus connection	2 x 9-pin SUB-D
Bus address	3 x decimal-coded rotary switches

Housing material	Aluminium, extrusion profile
Connection mode	Mounting panel
Protection class	IP20
Ambient temperature	-40…+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
Dimensions	440 x 260 x 130 mm

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

Accessories

Type code	Ident-No.		Dimension drawing
BM-PS	6884044	Cover for the unused power port	
BM1	6884036	Dummy module for unused slots on the module rack	