



or



Compact IO module for Ex Zone 1/21 with Profinet or Modbus TCP/IP in one device. The module include busnode with **24 increased safety** digital IO channels on smallest space.

BEx1 module can be installed directly in Zone 1/21 and connects sensors and actuators from Zone 1/21.

Feature

- Fully potted → extreme robust
- IO variations
8AI 8DIO(AO) 8DIO
- None configuration on module required
- Galvanic separation between channel and system
- Internal temperature monitoring
- Operating hour counter

Explosion protection

EPS 19 ATEX 1 219 X
EPS 22 UKEX 1 045 X



II 2 G Ex eb mb IIC T4 Gb
II 2 D Ex tb IIIC T110°C Db

IECEX EPS 19.0093X

Ex eb mb IIC T4 Gb
Ex tb IIIC T110°C Db



Intertek
5025332

Class I, Division 2, Groups A, B, C, D
Class I, Zone 1, AEx eb mb IIC T4 Gb
Class II, Division 2, Groups F, G
Zone 21, AEx tb IIIC T110°C Db

Power supply

Operation voltage U_A/U_S	DC 18...30V
Current module and sensor supply I_S	DC 450 mA
Current actuator supply I_A	max. DC 12A
Power dissipation	max. 15 W
Reverse polarity protection	Yes
LED Voltage > 18V	Green
LED Undervoltage	Red

Fieldbus data

Addressing Profinet	via DCP
Addressing Modbus TCP/IP	DHCP or fix
Transfer Rate	10/100 MBit/s
Delay in signal change	< 10ms
LED Ethernet status LINK	Green
LED Ethernet status ACT	Yellow
LED Modul status	Green / Red
LED digital output on	Yellow
LED error detection	Red

Ambient conditions

Operating temperature	-40°C ... +70°C
Storage temperature	-40°C ... +80°C
Enclosure type (EN 60529)	IP66 / IP67

Mechanical data

(Order No. -00) Dimensions (LxWxH)	214x214x125 mm
(Order No. -01) Dimensions (LxWxH)	286x214x90 mm
Mounting holes	∅ 6,5
Mounting space	200 mm
Mounting position	any position
Weight	approx. 5400 g
Housing material	Aluminium (electroplated)
Housing marking	laser engraving
Vibration (EN 60068)	20g
Shock (EN 60068)	50g
Cable glands (stainless steel)	M20x1,5



IO variations (X1-X8)

	8AI 8DIO(AO) 8DIO
	Type : 153101*04
	(1) AI
	(2) GND
	(3) DI / DO (1A) / AO
	(4) GND
(5) DI / DO (2A)	

IO function

DI	24V
DO	24V (I_{max} Pin3=1A / Pin5=2A)
AI and AO	24V 4..20mA (0..25mA)
Resolution AI und AO	16 Bit
Measurement deviation (at +25°C)	± 0,1%
Ambient temperature influence	± 0,01%/K

Electrical connection

Earthing / Equipotential bonding via M4 screw and eyelet	
Cable cross-section	min. 4,0 mm ²
CAGE CLAMP® connection technology	
X1-X8 Inputs / Outputs (Ex e)	
Cable cross-section	max. 2,5 mm ²
X9 Power supply (Ex e)	
Cable cross-section	max. 2,5 mm ²
X10 Bus (Ex e)	
Cable cross-section	max. 2,5 mm ²

Commercial data

Zone 1/21
BEx1 IP67 Ex e 8AI 8DIO(AO) 8DIO
Profinet / Modbus TCP



Order No. 15310104-00



Order No. 15310104-01

Country of origin	DE
Packaging unit	1
Customs tariff number	85176200

Further information see certificate and manual.