

or



Compact Remote IO modules for Ex Zone 1 with Profinet or Modbus TCP/IP. The modules include busnode with **24 increased safety** digital IO channels on smallest space.

BEx1 module can be installed in Zone 1 with certified Ex e enclosure and connects sensors and actuators from Zone 1.

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

BEx1 Explosion protection

EPS 19 ATEX 1 219 X
 EPS 22 UKEX 1 045 X
 Ⓜ II 2 G Ex eb mb IIC T4 Gb
 IECEx EPS 19.0093X
 Ex eb mb IIC T4 Gb

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	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

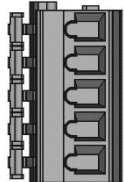
Ambient conditions

Range of the service temperature after installation inside	
additional enclosure	-40°C ... +70°C
Storage temperature	-40°C ... +80°C
Enclosure type (EN 60529)	IP 20

Mechanical data

Dimensions (LxWxH)	214 x 132 x 65 mm
Mounting holes	∅ 5,2
Mounting space	200 mm
Mounting position	any position
Weight	approx. 2700 g
Housing material	Aluminium (electroplated)
Housing marking	laser engraving

IO variations (X1-X8)

	8AI 8AO(DIO) 8DIO
	Type : 15310*04
	(1) AI
	(2) GND
	(3) DI / DO (0.5A) / AO
	(4) GND
(5) DI / DO (2A)	

IO function


DI	24V
DO	24V (I _{max} Pin3=0.5A / 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

Commercial data

Zone 1/21	BEx1 8AI 8DIO(AO) 8DIO
Profinet Order No.	15310104
Modbus TCP Order No.	15310304
Country of origin	DE
Packaging unit	1
Customs tariff number	85176200

Further information see certificate and manual.

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