



## Ethernet Switch BNT 1003<sup>ex</sup>-GX2

### Features

- Direct installation in ATEX Zone 1 and 21 as well as ATEX M2
- No additional explosion protection enclosure required
- No additional mains adapter required
- Connects easily to additional devices
- Full functionality of the main product
- Range max. 550 m with Multimode

### Description

The Ethernet switches and media converters in the BNT series are used as stationary devices in potentially explosive atmospheres of device groups I and II.

They are used to transfer optical or electronic data signals up to a maximum bandwidth of 6 Gbit/s.

They are available in two different models, with aluminium housing for use in ATEX Zone 1 and Zone 21 and the stainless steel housing for use in the ATEX M2 area.

### Explosion protection

#### Ex protection type

- Mining M2
- ⊕ I M2 (M1) Ex eb qb [op is] I
- Gas Zone 1
- ⊕ II 2(1)G Ex eb qb [op is] IIC T4
- Dust Zone 21
- ⊕ II 2(1)D Ex tb [op is] IIIC T135 °C

#### Certification

IBExU 13 ATEX 1131

### Technical data

#### Main device

N-TRON 1003GX2

#### Network specifications

- Unmanaged switch
- Fully IEEE 802.3, 3u, 3z and 3ab compliant
- 1 x 10/100/1000BaseT connection and 2 x 1000BaseSX multimode FOC
- ST connector
- Full/half duplex operation
- Up to 6 Gbit/s data throughput
- Auto-sensing
- Supports up to 1,024 MAC addresses
- Store-and-Forward technology
- LED display: Link/Activity

#### Operating temperature

-40 °C to +80 °C

#### Reliability

> 2 million MTBF hours

#### Power supply

DC 10 to 30 V, redundant  
AC 90 to 253 V, external

#### Connections

1 x Gigabit TX  
2 x Gigabit FOC, ST connector  
1 x power supply

#### Recommended optical fibre

Multimode 50/125 µm

#### Supported network protocols

Ethernet/IP  
ProfiNET IO

#### Range (applies only at 1,000 Mbit/s)

max. 550 m (fibre optic "ST") with Multimode

#### Average forwarding time

1580 ns

#### Dimensions (height x width x depth)

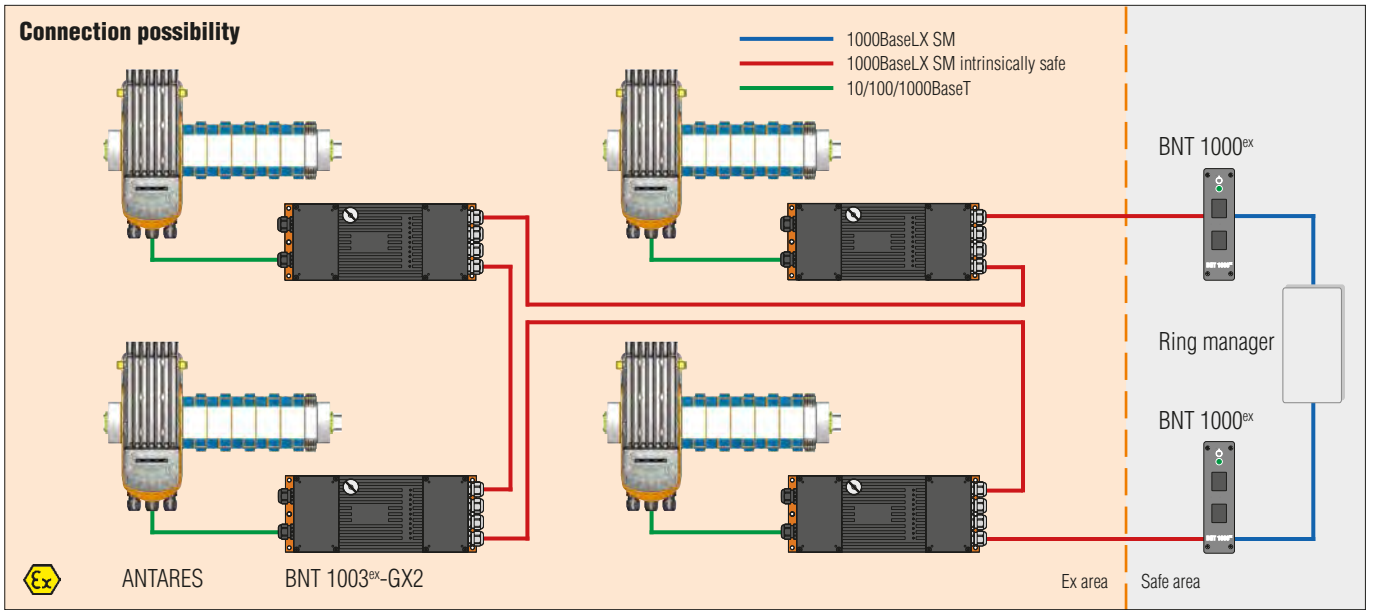
140 mm x 380 mm x 56 mm

#### Weight

4.5 kg for Zone 1, 21  
7.2 kg for M2

#### Protection class (EN 60529)

IP 64



**Selection chart BNT 1003<sup>ex</sup>-GX2**

Power supply	Code no.
AC 90 V to 230 V	1
DC 10 V to 30 V	2

➔ **Complete order no.**  
**BNT 1003<sup>ex</sup>-GX2** for Zone 1 and 21 **07-7382-11**  **3/0000**  
for M2 **07-7382-23**  **3/0000**

Please insert correct code. Technical data subject to change without notice.