



Ethernet Switch BNT 1002^{ex}-MC

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 2 Gbit/s.

They are available in two different models, with aluminium housing for use in ATEX Zone 1 and 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 1002MC

Network specifications

- Unmanaged switch, media converter
- Fully IEEE 802.3, 3u, 3z and 3ab compliant
- 1 x 10/100/1000BaseT connection and 1 x 1000BaseSX multimode FOC
- ST connector
- Full/half duplex operation
- Up to 2 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

1 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

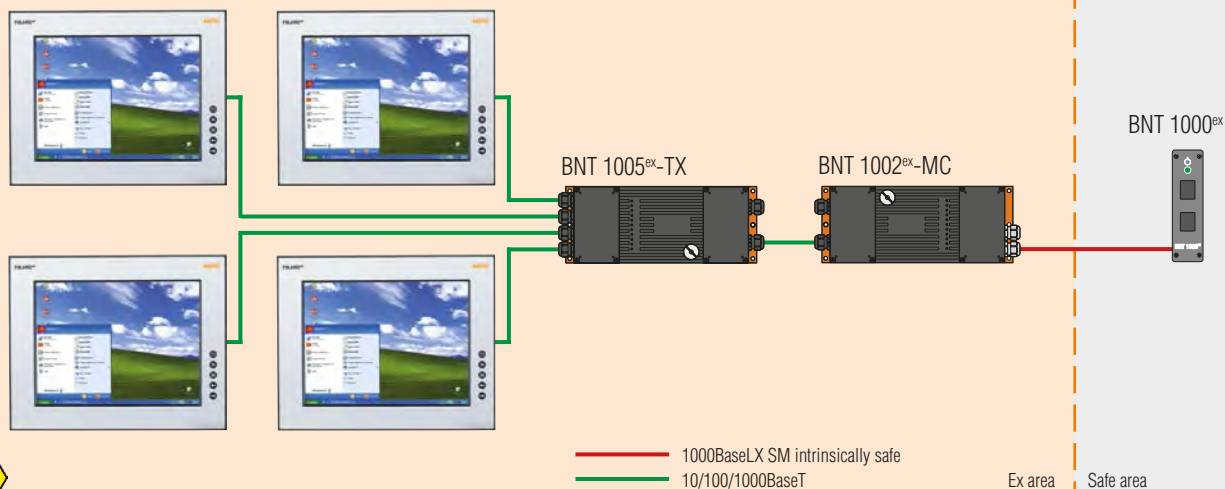
Protection class (EN 60529)

IP 64



Connection possibility



POLARIS



Selection chart BNT 1002^{ex}-MC

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

Complete order no.
BNT 1002^{ex}-MC for ATEX Zone 1 and 21
 for ATEX M2

07-7382-11  **2/0000**
07-7382-23  **2/0000**

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