



Gigabit Ethernet Switch BNT 1005^{ex}-TX

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
- Max. range 100 m

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 10 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

Ex I M2 Ex eb qb I

Gas Zone 1

Ex II 2G Ex eb qb IIC T4

Dust Zone 21

Ex II 2D Ex tb IIC T135°C

Certification

IBExU 13 ATEX 1131

Technical data

Main device

N-TRON 1005TX

Network specifications

- Unmanaged switch
- Fully IEEE 802.3, 3u and 3ab compliant
- 5 x 10/100/1000BaseT connections
- Full/half duplex operation
- Up to 10 Gbit/s data throughput
- Auto-sensing
- Supports up to 4,000 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

5 x Gigabit TX

1 x power supply

Supported network protocols

Ethernet/IP

ProfiNET IO

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

max. 100 m (copper Cat5e)

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



BNT 1005^{ex}-TX

10/100/1000BaseT



Safe area

Selection chart BNT 1005^{ex}-TX

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

Complete order no.

BNT 1005^{ex}-TX for Zone 1 and 21 **07-7382-11** ☐ 1/0000

for M2 **07-7382-23** ☐ 1/0000

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