



TROX TNC-DP One Profibus DP Connector Owner's Manual

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TROX

TROX TNC-DP One Profibus DP Connector



Product Information

Specifications

- Terminal resistor
- Integral resistor can be set using the slide switch
- Transfer rate: Max. 12 Mbit/s
- Cable routing: PROFIBUS component
- SUB-D socket, 9-pole
- PROFIBUS bus cable
- Ambient temperature
- Storage temperature
- Relative humidity
- Protection level: IP 20
- Standard description (characteristics): One PROFIBUS DP connector per AS-i DP controller and DP master system (display)

Product Usage Instructions

Step 1: Preparation

Before connecting the TNC-DP connector, ensure that you have the necessary tools and materials:

- TNC-DP connector
- TNC-A4000 flat cable (100 m)
- TNC-70381 flat cable distributor
- TNC-70413 end seals (10 pieces)
- TNC-70113 heat shrink caps (10 pieces)
- TNC-70067 cable clips for flat cables (100 pieces)

Step 2: Assembly

Follow these steps to assemble the TNC-DP connector:

1. Insert the TNC-A4000 flat cable into the TNC-DP connector.
2. Make sure the cable is securely inserted and locked in place.
3. Use the TNC-70381 flat cable distributor to distribute the cable if needed.
4. Apply the TNC-70413 end seals to ensure proper insulation.
5. If required, use the TNC-70113 heat shrink caps to further secure the connection.
6. Use the TNC-70067 cable clips to organize and secure the flat cables.

Step 3: Connection

Connect the TNC-DP connector to the PROFIBUS bus by following these steps:

1. Locate the PROFIBUS controller or display.
2. Insert the TNC-DP connector into the appropriate port of the controller or display.
3. Ensure a secure and proper connection.

Step 4: Configuration

If necessary, set the integral resistor using the slide switch on the TNC-DP connector. Refer to the user manual of your specific controller or display for more information on resistor configuration.

Frequently Asked Questions (FAQ):

Q: What is the transfer rate of the TNC-DP connector?

A: The TNC-DP connector supports a maximum transfer rate of 12 Mbit/s.

Q: What is the protection level of the TNC-DP connector?

A: The TNC-DP connector has a protection level of IP 20.

Q: Can I use the TNC-DP connector with any PROFIBUS controller or display?

A: Yes, the TNC-DP connector is compatible with any PROFIBUS controller or display.

PACKAGE CONTENTS



TNC-DP

ONE PROFIBUS DP CONNECTOR PER ASI DP CONTROLLER AND DP MASTER SYSTEM (DISPLAY).

All products are of high quality and meet the requirements of AS-Interface

- Asymmetrically shaped cable to ensure error-free connection (reverse voltage protection)
- Easy wiring due to flat cable insulation displacement connectors ('click and go')
- Protection level up to IP 67

Application

- For the connection of a PROFIBUS controller or display to the PROFIBUS bus
- Easy assembly
- With terminal resistor

TECHNICAL INFORMATION

Description	TNC-DP connector
Supply voltage	4.75 – 5.25 V DC (to be provided by the terminal unit)
Terminal resistor	Integral resistor can be set using the slide switch
Transfer rate	Max. 12 Mbit/s
Cable routing	35° angle
PROFIBUS component	SUB-D socket, 9-pole
PROFIBUS bus cable	4 rail mount terminals for wires up to 1.0 mm²
Ambient temperature	0 – 60 °C
Storage temperature	–25 to 80 °C
Relative humidity	Max. 75 % at 25 °C
Protection level	IP 20

Standard description (characteristics)

One PROFIBUS DP connector per AS-i DP controller and DP master system (display).

- Supply voltage: 4.75 – 5.25 V DC (must be provided by the terminal unit)
- Cable routing: 35° angle
- Ambient temperature: 0 – 60 °C
- Protection level: IP 20
- Make: TROX GmbH or equivalent
- Type: TNC-DP Stecker

Useful additions

- TNC-A4000 Flat cable (100 m)
- TNC-70381 Flat cable distributor
- TNC-70413 End seals (10 pieces)
- TNC-70113 Heat shrink caps (10 pieces)
- TNC-70067 Cable clips for flat cables (100 pieces)
- TNC-DP connector

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References

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