Data sheet:

ST fiber-optic line <> Profibus interface

Article no.: 61211

This article is still available for existing customers. If needed feel free to contact us by phone or e-mail: +49 202/2680 110, info@wut.de

Properties

- RS485 interface with Profibus pinout
- Baud rate up to 1.5 MBaud
- Electrical isolation to almost any extent between the connected devices
- Disruption-free and secure transmission across distances of up to 3800 m
- Extended supply voltage range up to 24V
- Shipped optionally with or without power supply:
  Please order power supplies as separate accessories.
- No re-configuration of transmission parameters required
- Housing suitable for installation on top hat rails
- **Conforms to standards both in office and industrial environments:**
  - High noise resistance per EN 61000-6-2
  - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

Background information:

For data transmission across long distances and/or in extremely interfering environments, we strongly recommend the use of fiber-optic cables. Easily installed connections over relatively short distances up to 100 m are made possible by the use of plastic optical fiber cables, whereas for a distance segment of up to 3800 m, the use of fiber-optic lines is made necessary. The attenuation of the light in fiber-optic lines is considerably lower than that in plastic optical fiber cables.

While, in the past, the installation and preparation of fiber-optic lines was rather difficult, many suppliers now offer a comprehensive service of installation and customizing of cables, due to the fact that fiber-optic technology is now increasingly applied in commercial networks.

Technical data

Operating mode:	RS485 2-wire mode with echo suppression and automatic control of the RS485 transceivers
Switching time:	approx. 1µs for switching from data send to receive (can be changed on request)
Baud rate:	0..1.5 Mbaud
Data format:	any format
Transmitted signals:	RxD-P/TxD-P, RxD-N/TxD-N
Serial connection:	9-pin SUB-D socket
Glass fiber connection:	ST plug adapter

Fiber-optic medium:	Duplex multimode fiber-optic cable 50/125um, 62.5/125um 200/230um PCS fibers on request
Max. distance:	50/125um: typically 3200m, min. 1400m @3dB/km 62.5/125um: typically 3800m, min. 2200m @3.5dB/km
Optical budget:	50/125um: typically 9.6dB, min. 4.2dB 62.5/125um: typically 13.4dB, min. 8.0dB
Wavelength:	820 nm
Galvanic isolation:	Isolation voltage min. 1 KV DC between supply and serial connection
Power supply:	12..24V DC/AC
Current consumption:	max. 150 mA at 12 V input voltage
Supply voltage connection:	Plug-in screw terminal, 5.08mm spacing Labeled "L+" and "M"
Ambient temperature:	Storage: -40..+70°C Operating in non-rowed installation: 0..+60°C Operating in rowed installation 0..+50°C
Permissible relative humidity:	0..95% RH (non-condensing)
Housing:	Plastic compact housing, 105x75x22mm
Weight:	approx. 100 g
Scope of delivery:	1x ST fiber-optic line <> profibus interface

W&T
www.WuT.de

We are available to you in person:

Wiesemann & Theis GmbH
Porschestr. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

© Wiesemann & Theis GmbH, subject to mistakes and changes: Since we can make mistakes, none of our statements should be applied without verification. Please let us know of any errors or misunderstandings you find so that we can become aware of and eliminate them.

Data Privacy