

Data sheet:

Interface Glass Fiber-Bus ST <> Profibus



Article no.: 65211

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
- Noise-immune and secure transmission over a distance of up to 3800 meters per segment
- 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
Supported topologies:	Bus and star, but no ring structures
Cascadability:	5 Adapter @93.75 Kbaud, 32 Adapter @19.2 Kbaud
Serial connection:	9-pin SUB-D socket
Glass fiber connection:	ST plug adapter SMA plug adapter on request

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
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 small housing, 105x75x45mm

Weight: approx. 100 g

Scope of delivery: 1x Interface Glass Fiber-Bus ST <> Profibus



[We are available to you in person:](#)

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