The RS485/PROFIBUS Optical Fibre T-coupler reroutes the PROFIBUS from copper conductors to optical fibres. The coupler is a passive bus participant. The optical fibre T-coupler allows great ranges to be bridged in plants using PROFIBUS, and is resistant to interference. The electronics for the signal conversion are accomodated in the flameproof MODEX enclosure. The transmitter and receiver for the optical fibre T-coupler are activated in an intrinsically safe way, thereby ensuring that the transmission power of the transmitter does not exceed the permitted limits.

**Explosion protection**

Marking ATEX

IE II 2G Ex db e [ib] IIC Gb
IE I M2 Ex db e [ib] I Mb

Certification

PTB 97 ATEX 1068 U
TÜV 99 ATEX 1404 X

Marking IECEx

Ex db e [ib] IIC Gb
Ex db e [ib] I Mb

Certification

IECEx PTB 11.0083U
IECEx TUN 12.0024X

Marking CSA

Class I Zone 1 IIC
A/Ex d e [ib] IIC Gb

Certification

CSA 2011-2484303U

Other approvals and certificates, see www.bartec.de

**Technical data**

Construction

Clip-on enclosure to TH 35

Enclosure material

High-quality thermoplastic

Protection class

At least IP 20

Device designation

Front plate for labelling

Displays

LEDs on front panel

Storage temperature

-40 °C to +70 °C

Ambient temperature

-25 °C to +60 °C at T4

Weight

600 g

**Electrical data**

Supply voltage

DC 20 V to DC 30 V

Power dissipation

max. $P_p = 0.90$ W (Module)

Galvanic isolation

Bus/power supply/optical fibre

Bus input/output

2-wire remote bus with screw terminals

Optical fibre input/output

FSMA Optical fibre plug-in connectors or ST Optical fibre plug-in connectors

Wavelength

850 nm/glass

Displays

LED green/active bus LED yellow

Range

1400 m; 50.0 µm fibre/glass

2600 m; 62.5 µm fibre/glass
Connection example of optical fibre T-coupler

Wiring diagram/terminal assignment

Ordering information
T-coupler FSMA 07-7311-97WP/4000
T-coupler ST 07-7311-97WP/4010

Technical data subject to change without notice.