

# INTERBUS Club

## Specification Fiber Optic Connector for INTERBUS



### 1. Fiber Optic Connector for INTERBUS

#### 1.1 Field of Application:

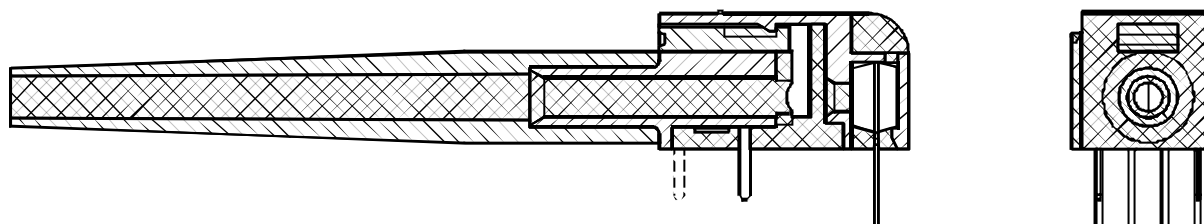
INTERBUS remote bus with optical fiber, polymer fiber

#### 1.2 Type, Precise Designation:

Fiber optic p.c.b terminal block with transmit/receive diode – FOPT 2,2

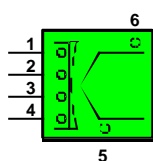
General Parameters	
Interlock	Spring-cage terminal block
Degree of protection	IP 20
Connection capacity	IEC 60793-2 polymer fiber, type A4a, 980/1000 $\mu\text{m}$ Diameter of the outer cable sheath 2.2 mm +/- 0.07

#### 1.2.1. View:



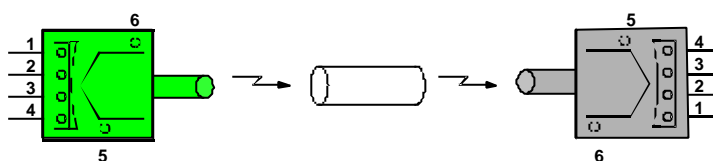
#### Optical Transmitter:

Green



#### Optical Receiver:

Black



#### 1.2.2. Fiber:

The new connector has no effect on the "optical transmission technology" standard. All demands on the fiber and the optical components (transmitter and receiver) still apply.

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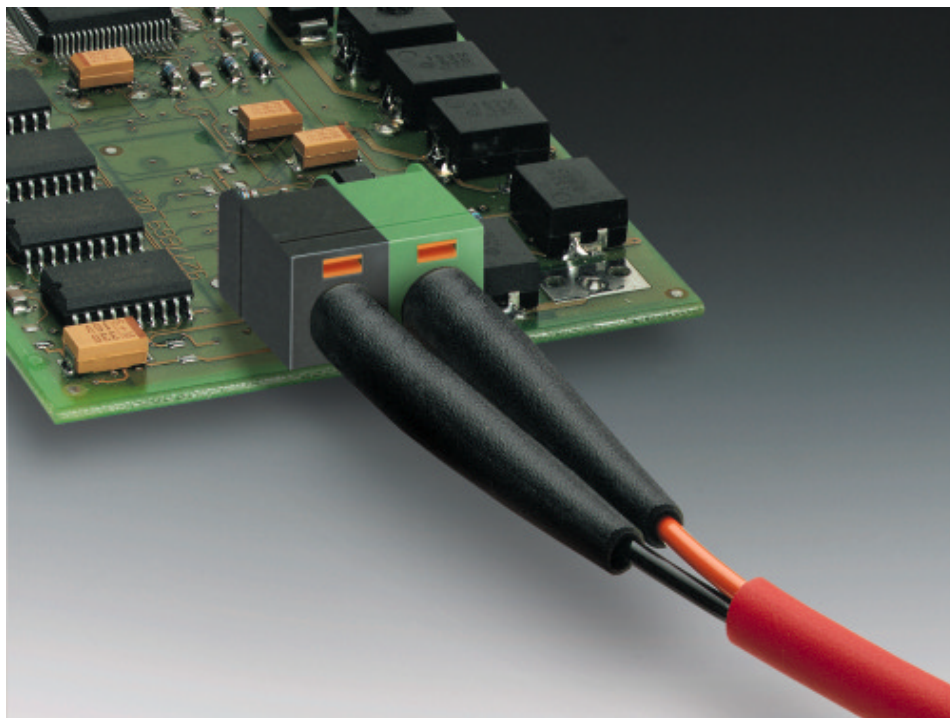
## 1.3. Manufacturer Designation:

E.g.



Phoenix Contact GmbH & Co. KG  
Flachsmarktstraße 8  
32825 Blomberg  
www.phoenixcontact.com

Designation	Type	Order No.
Fiber optic p.c.b terminal block with transmit diode (green)	FOPT 2,2 –T	19 07 91 1
Fiber optic p.c.b terminal block with receive diode (black)	FOPT 2,2 –R	19 07 92 4



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### 1.4. Main Advantage:

Until now

→ FSMA connectors

are permitted for remote bus devices with optical interfaces that have a low degree of protection.

The assembly of these connectors is time-consuming and complex.

The assembly of the FOPT 2,2 can easily be done by cutting and inserting the cable in the FOPT 2,2. Special tools are not required.

Using FOPT 2,2 terminal blocks also is cost-effective because compared to FSMA the connectors for the fiber in addition to the fiber optic components are not required.

The FOPT 2,2 can be mounted side by side because no space is needed for screwing in the connectors. Thus the overall space requirement is reduced.

### 1.5. Restrictions:

Can only be used for protocol chips with automatic interface recognition (e.g., IBS SUPI OPC).