



The optical fibre interface is a DIN rail mounted device for insertion in distribution boards. It is connected to the EIB via the bus connecting terminal (supplied).

The device is used to couple two sections of an EIB line using optical fibres in order to bridge greater distances and to reduce the amount of lightning and overvoltage protective equipment when laying cables across buildings. An EIB power supply must be provided for both EIB sections.

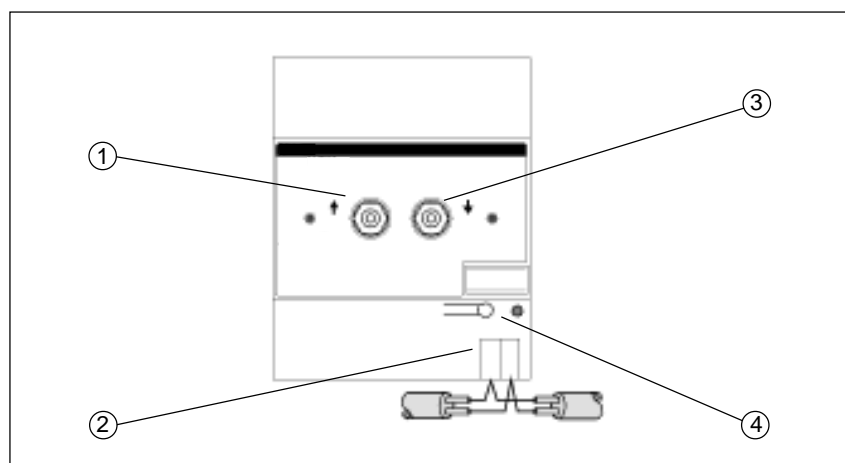
Two devices are required to set up a transmission link. These are connected to an existing optical fibre installation by means of a 2 m long patch cable (included with supply). Signals are transmitted by two optical fibres that are suitable for transferring 850nm signals. It is also possible to connect them directly with prefabricated standard cables.

The data flow is displayed separately for the optical fibre input and output using an LED.

**Technical Data**

<b>Power supply</b>	– EIB	24 VDC, via the bus line
<b>Inputs / outputs</b>	– 1 ST transmitter	for sending optical signals
	– 1 ST receiver	for receiving optical signals
<b>Transmission link</b>	– Max. path attenuation	in total 14 dB at 850 nm
	– Achievable section length (examples)	with 50/125µm fibre (4dB/km) ca 3.5km with 200µm fibre (10dB/km) ca. 1.4km
<b>Operating and display elements</b>	– Yellow LED	data is sent
	– Yellow LED	data is received
	– Label carrier	
	– LED and push button	no function
<b>Connections</b>	– Send	ST socket for optical fibre patch cable (2x50/125µm)
	– Receive	ST socket for optical fibre patch cable (2x50/125µm)
	– EIB	Bus connecting terminal (included with supply)
<b>Type of protection</b>	– IP 20, EN 60 529	
<b>Protection class</b>	– II	
<b>Ambient temperature range</b>	– Operation	- 5 °C ... 45 °C
	– Storage	-25 °C ... 55 °C
	– Transport	-25 °C ... 70 °C
<b>Design</b>	– modular installation device, proM	
<b>Housing, colour</b>	– Plastic housing, grey	
<b>Mounting</b>	– on 35 mm mounting rail, DIN EN 50022	
<b>Dimensions</b>	– 90 x 72 x 76 mm (H x W x D)	
<b>Mounting depth/width</b>	– 68 mm / 4 modules at 18 mm	
<b>Weight</b>	– 0.30 kg	
<b>CE norm</b>	– in accordance with the EMC guideline and the low voltage guideline	

Wiring diagram



1 Optical fibre output  
2 Bus connection

3 Optical fibre input  
4 Programming LED, push button