Datasheet

Features RS-232 Fiber Optical Converter

- Fiber optic transmission, immune to EMI and RFI
- Power Supply for 110 or 230 volts
- Electric 25 pin female or male D-sub connector
- With or without control signals
- Fiber optic connector for plastic- or glass-fiber
- Glass fiber connectors for ST or SC
- Mountable on connector or on cable

The RS-232 Fiber Optical Converter comes in a variety of versions

The range of Fibersystems RS-232 Fiber Optical Converter makes it possible to use RS-232 as communication interface in environments and applications where electrical connections can´t give safe and proper functionality as well as immunity against electrical or magnetical fields.

Fiber optic cables gives advantages over common electrical cabling

• Immune to all kinds of electromagnetic interference and disturbance.
• The communication can't interfere with other signals.
• Enables the use of higher data rates over longer distances.

Installation advantages

• Electrical isolation between the two communication devices.
• No concern have to be taken to high voltage or high current cables when installed.

Application benefits

• The transmission is totally independent of transmission speed
• All type of data will be transparently be forwarded
• The communication can be two way simultaneously and independent of each other

*The Fibersystem **RS-232 Fiber Optical Converters** is encapsulated in corrosive protected steel which gives them a very good **protection against electrical and magnetical fields**. The dimensions are small and with a unique design with either nut or screw fastening of the electrical connector.*

The RS-232 Fiber Optical Converters can easily be mounted either on a connector or directly on a cable. This gives the possibility to easily mount a adapter directly on the converter for change of male/ female or number of pins 9/25 pin D-sub

***Fibersystem AB** is an inventive Swedish company who since 1982 has been working with the application of fibreoptic technology in the delivery of solutions fulfilling the Customers' multitude of needs.*

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Technical data

Electric connection

Male or female	25 pin D-sub connector with either nut or screw fastening

Optic connection

Glass fiber	ST or SC

Transmission distance

Glass fiber	Typical 0-2000 m, max. 14 dB attenuation in 62,5/125 fiber Multimode, MM, typical 0-2 km, max. 14 dB attenuation in 62,5/125 fiber Singlemode, SMF, typical 0,1-40 km, max. 29 dB attenuation in 10/125 fiber
4 channel type	0-38.4 kBaud for glass fiber

Mechanical / Environment

Dimensions	H. 22 mm W. 57 mm L. 85 mm
Weight	150 gram
Environment	0 to +50°C, (-40 to +70°C for 21-215), 10 - 90% RHD non condensing (others on request)

Power supply

Voltage	5 V Return/DGND on pin 7, or 7 - 10 V on the external power supply connector (7-24 V for 21-215 and 21-217)
Current max	1 channel type - 200 mA, 4 channel type - 250 mA

Ordering information

Product number	Model	Channels	Description
60-00-5440	21-215	4	Fiber Optical Converter SC SM 40km,w.fe. D-sub, RS-232/4, 125Mbps
60-00-5554	21-217	4	Fiber Optical Converter SC SM 40km, female D-sub, RS-232/4, 125Mbps
60-00-3235	23-415	4	Fiber Optical Converter SMA with female D-sub ,RS-232/4
60-00-3274	23-416	4	Fiber Optical Converter ST with female D-sub ,RS-232/4
60-00-3481	23-418	4	Fiber Optical Converter ST with RJ45, RS-232/4

92-001	Power supply for 230V to 7.5V , 250 mA
92-101	Power supply for 110V to 7.5V , 250 mA
50-65-1725	Adapter D-sub 25 pin female to 9 pin male
50-65-1655	Adapter D-sub 25 pin male to 9 pin female, 0.3m
50-65-1265	Adapter D-sub 25 pin male to 25 pin male
50-65-1388	Adapter D-sub 25 pin female to 25 pin female

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