

SFP Transceiver Gigabit Ethernet 1000Base-T

MICROSENS

Description

The actual SFP transceivers from MICROSENS offer an optical transmission over multimode or single mode fiber. Depending on the model the transceiver can cover distances up to 120 km.

The SFP (Small Form Factor Pluggable) is based on the same principle as the GBIC. The main difference is the size of the transceiver with only half of the width (mechanical dimensions) due to the use of the LC connector.

The optical transceiver from MICROSENS comply to the SFP specifications Revision 5.4.. Additional they are compliant to all common ATM (OC-3) and Sonet (SDH STM-1) standards.

The transceivers are available with different wavelengths. For multimode applications a wavelength of 1310 nm is used. This allows realising distances up to 2 km using a multimode fiber.

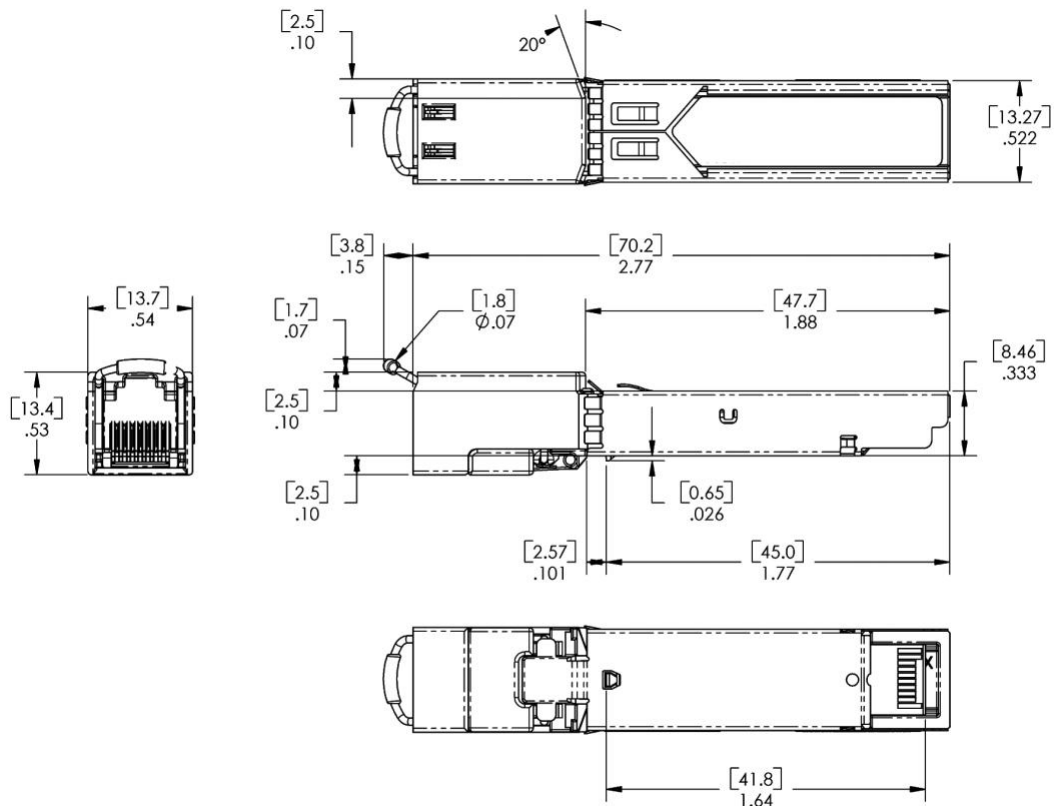
For single mode applications there are FP and DFB lasers with the wavelengths of 1310 and 1550 nm available. Depending on the model it is possible to cover distances from 15 km up to 80 km. The transceivers offer the highest flexibility and can be installed during operation (hot swap).

The SFP of this data sheet offer a direct connection of copper cables with RJ-45 connectors. Therefore it is possible to have the integration of copper based Gigabit Ethernet equipment to the crossbar and with this to the Access and xWDM systems of MICROSENS.

Technical Specifications

Type	SFP (Small Form Factor Pluggable) Transceiver for data transmission with 1000Base-T Gigabit Ethernet
Cable type	Cat. 5 with RJ-45 connector
Data Rates	1 Gbps
Standards	CDRH and IEC 825-1 class 1 eye safety
Operating temperature	0°C to 60° C
Supply Voltage	3.3 V

Construction



Diagnostic Function (optional)

Optional the transceivers are available with Diagnostic function (Extension of article number with "D", e.g. MS100010D), to monitor detailed all operating information.

This offers to read information such as optical transmit power, receive power, the optical budget, the resulting possible distances and the real used data rate via the management system.

This feature is particular useful in combination with the MICROSENS xWDM systems, because it increases the functionality significant.

Eye Safety

Attention: Visible and invisible light emitted from fiber optical component may cause permanent damage to your eyes!

To avoid damage to the eyes

- never look straight into the output of fiber optic components – danger of blinding!
- cover all unused optical connections with caps.
- commission the transmission link only after completing all connections.

The active laser components used with this product comply with the provisions of **Laser Class 1**.

Order Information

Art.-No.	Description	Connector s
MS100090	Local Interface (SFP), Gigabit Ethernet, RJ-45 connector, 1 Gbps	1x RJ-45

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