

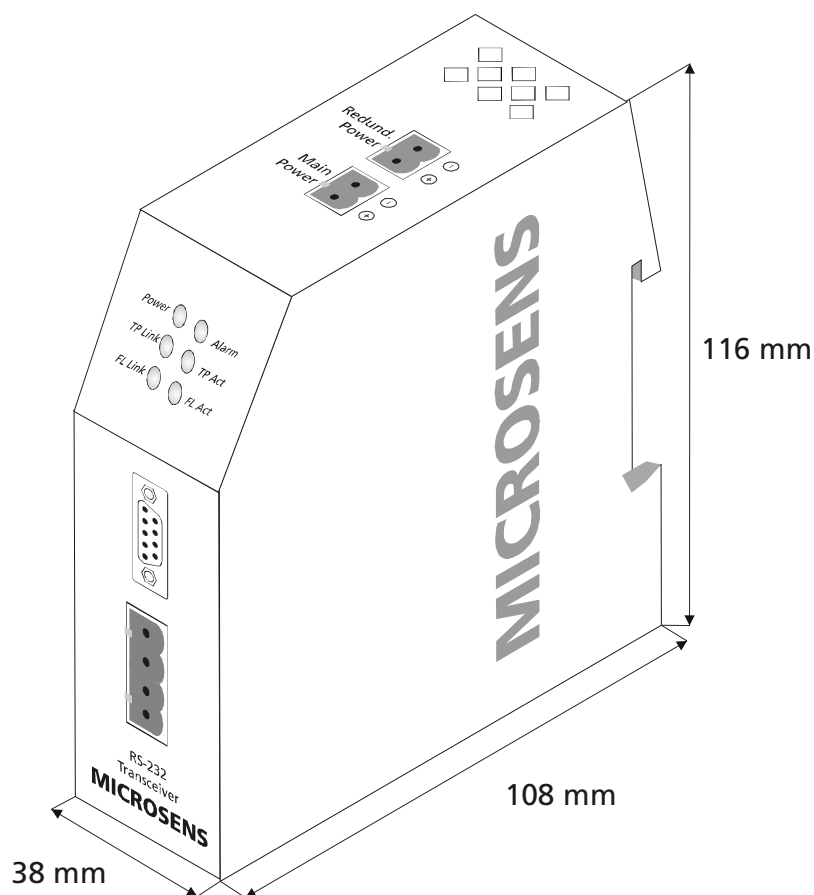
# Transceiver RS-485 / FO Industrial design

# MICROSENS

## Introduction

To meet the high requirements in the industrial environment, MICROSENS has developed a special line of media converters. The converters are equipped with a series of functions such a contact free of potential, additional screw terminal for redundant power supply and parallel screw terminal to the SUB D9; the case metal is robust and supports more significant variations in temperatures.

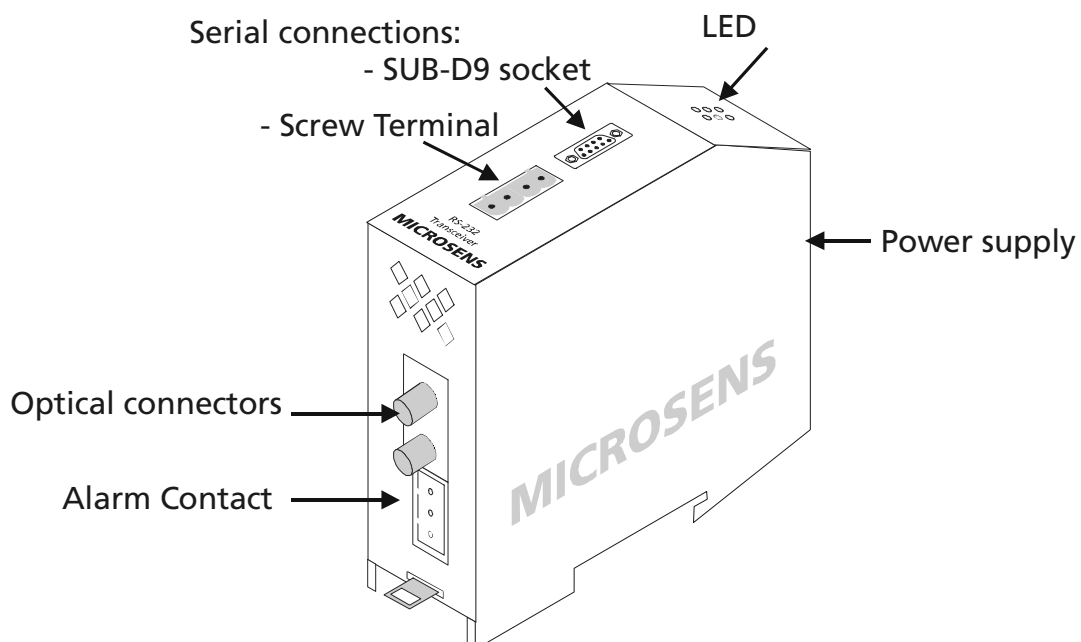
The new line includes transceivers for industrial interfaces (RS-232/V.24, RS-422/V.11 and RS-485) described below as well as converters Ethernet (10Base-FL/10Base-T) and Fast Ethernet (100Base-FX/100Base-TX).



## Technical Information

<b>Type</b>	Half Duplex Transceiver RS-485 /Fibre Optic for Industry		
<b>Type of Fiber</b>	Multimode 50/125 or 62,5/125µm, Single Mode 9/125 µm		
<b>Parameters</b>		Multimode	Single Mode
	<i>Distance:</i>	2 km	15 km      40 km
	<i>Power:</i>	- 19 dBm	- 15 dBm      -5 dBm
	<i>Sensibility:</i>	- 31 dBm	- 31 dBm      -34 dBm
	<i>Wavelength:</i>	1310 nm	1310 nm      1310 nm
<b>Connections</b>	2xST 1xSUB D 9 (3: Rx+/Tx+ ; 5: GND ; 8: Tx-/Tx-)		
<b>Data Rate</b>	max. 2Mbit/s		
<b>LED</b>	<i>Power</i>	Ready for the operation	
	<i>FO Xmt</i>	Data transmitted via the FO	
	<i>FO Rcv</i>	Data received via the FO	
	<i>TxD</i>	Data transmitted on the electrical side	
	<i>RxD</i>	Data received on the electrical side	
	<i>Alarm</i>	Link stopped	
	<i>Term</i>	Pull up / Pull down : ON	
<b>Assembly</b>	35 mm Rail, DIN EN 50 022 standard		
<b>Power Supply</b>	24 V DC (+ /- 20%) via an external power supply connection on a screw terminal, redundant screw terminal		
<b>Dimensions</b>	38 x 108 x 116 mm		
<b>Temp. ambient</b>	-20°C to 60°C		
<b>Temp. storage</b>	-20°C to 80°C		
<b>Air Humidity</b>	5% to 90% non condens.		

## Connections

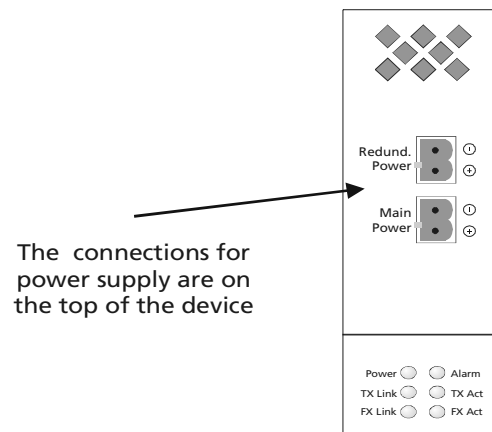


## Alarm Contact

The transceiver is equipped with 2 Loop Back switches. The one for the Back Loop on copper has no functionality. The one for the Back Loop on the Fibre makes it possible to test the Fibre segment before it is started up. The test consists in directly re-emitting on the Fibre the data which have just being received on the Fibre. Once the test has been carried out, be aware to switch OFF the Loop Back. (the LED is then off).

## Power Supply

The product runs on 24 V DC. The power supply is not delivered with the product. The screw terminal is on the top of the device. A second screw terminal is available for a redundant power supply.



## Assembly

The converter is in a very robust metal case, with an attachment unit on a 35mm rail of DIN IN 50 022 standard. Thus, the device can be locked on the rail; a metal leg allows to re-eject it from the rail. The optimal circulation of the air and of heat makes it possible to lock several devices side by side.

**Order Information**

<b>Art. No.</b>	<b>Description</b>	<b>Connectors</b>
MS650342	Half duplex Transceiver RS-485 /FO Multimode 1310 nm, ST	2 x ST, 1 xSUD D9 screw terminals, Alarm Relay Contact
MS650343	Half duplex Transceiver RS-485 /FO Multimode 1310 nm, SC	2 x SC, 1 xSUD D9 screw terminals, Alarm Relay Contact
MS650345	Half duplex Transceiver RS-485 /FO Single mode 1310 nm, ST Laser 15 km	2 x ST, 1 xSUD D9 screw terminals, Alarm Relay Contact
MS650347	Half duplex Transceiver RS-485 /FO Single mode 1310 nm, SC Laser 15 km	2 x SC, 1 xSUD D9 screw terminals, Alarm Relay Contact
MS650346	Half duplex Transceiver RS-485 /FO Single mode 1310 nm, SC Laser 40 km	2 x SC, 1 xSUD D9 screw terminals, Alarm Relay Contact

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