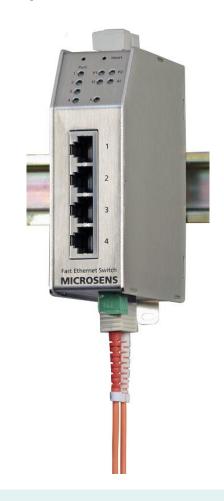


Datasheet

5-Port FE Industrial Profi Line Switch (optionally with PoE)





Features

Ethernet ports for demanding environments

The Industrial Profi Line Ring Switch with Fast Ethernet fiber optic ports is the compact, robust and flexible answer to the ever increasing requirement for Ethernet ports in demanding environments.

Robust

Modern, IP-based applications such as networks for large-area WiFi coverage or video surveillance systems become reliable, fail-safe and remotely manageable with this switch. The 5-port FE ring switch meets the high demands on robustness, fail-safety and offers a wide range of functionalities.

Reliable

Two independently integrated power supplies allow redundant power supply in DC voltage which is typical in a DIN-rail system (depending on the version typ. 24VDC / 48VDC).

PoE

A dedicated version with PoE function (according to IEEE802.3af) offers the necessary equipment for a PoE end device in a power supply-less solution.

Technical Details

Fast Ethernet Switch

Type Fan less Fast Ethernet Switch

Layer 2+, IEEE 802.3 compliant

Performance Store-and-forward

Full wire-speed, non-blocking

on all ports

MAC-Addresses 1.024 Adressen, automatic

Learning und Aging

VLANs Tagging IEEE802.3ac

> Priorisation IEEE 802.1p VLAN-IDs 0..4095 stat. / dyn. VLAN-Table

QoS 4 Hardware-Queues per Port

> Priorisation after: IPv4/IPv6

VLAN Prio IEEE 802.1p

Port

Weighting configurable

Environment

-20..+60 °C Operation -40..+75 °C Operation (X-

Ver.)

Humidity 5 .. 90%, nicht kondensierend

Storage -40..+85 °C

Local Ports (Twisted Pair)

Quantiy

Fast Ethernet, Dual Speed Type

10/100Base-TX

Connection RJ-45 Socket, shielded

Cable type Twisted-Pair Cable, Category 5,

Impedance 100 Ohm, Length

max. 100 m

Flow Control Pause Frames (IEEE 802.3x),

configurable

Auto MDI/MDI-X, Auto Polarity Pin assignment

Power-over-Ethernet (only

Power Sourcing Equipment (PSE) IEEE 802.3af

PM-Models)

Uplinks (FO)

Quantity

Fast Ethernet (100Base-FX) Typ

Multimode 62,5 or Cable type

50/125 µm

Single Mode 9/125 µm

Power-over-Ethernet (only PM-Variante)

Type 4x PSE

Output max. 15,4W/Port,

total max. 65W

Displays

Link Local Ports 1..4

> blinking Data transfer activated areen Uplink Ports 5 blinking Data transfer green activated

P 1..2 **Power**

Voltage ok green orange Voltage too low

Others Alarm (AI)

> Relay contact not off

activated (normal) Relay contact orange activated

Control panel

Reset-Button Reset the switch, restore the

last saved configuration IP configuration for management

Factory-Button Resetting the configuration to

factory settings, can be

switched off

Alarm contect

Connection 2-pin, potential-free alarm

contact

Display Alarm-LED (see displays)

Event Activates after failure of

a supply voltage

Technical Details

Power supply (24VDC)

Input 24VDC Power input typ. 6W

Connection 2x 2-pin, Screw connection

(+/-)

Grounding via DIN rail / grounding screw

Power supply (48VDC - PM-Variante)

Input 48VDC

Power input typ. 6W (without PoE)

max. 65W (incl. PoE)

Connection 2x 2- pin, Screw connection

(+/-)

Grounding via DIN rail / grounding screw

Mechanical

Dimensions 36x116x108mm (WxHxD)

CE 2004/108/EC (EMV) 2006/95/EG (Low voltage) Mounting DIN EN 50 022 EN 60950-1:2006 Safety Interference EN 55022:2006 emission Interference EN 55024:1998 resistance Reliability **MTBF** 400.000h Calculated, MIL HDBK-217F Method

790g

Passiv, Fanless

Alarm contact

Connection

The two-pin, potential-free alarm contact enables monitoring of the operating status via a connected external signal transmitter.

The contact of the alarm relay is positioned in the form of a clamp underneath the device.

Assignment

The switch contact can be assigned as needed:

- NO = Normal Open
- NC = Normal Closed

The signal status is confirmed by LED indicators (alarm LED).

Event

Weight

Cooling

Standards

Alarm triggered when the supply voltage is interrupted.

Attention!

The maximum contact load capacity is 0.5 A at max. 60 V DC.

NOT suitable for the direct connection of 230 VAC devices!

Features Networkmanagement

You can find a current overview of all network features in our document "Firmware Features".

The document is available at www.microsens.de on the relevant product page in the download center.

IEEE- / RFC-Standards

The IEEE standards and RFCs supported by the Industrial Profi Line Switch can be found here "Firmware_Features".

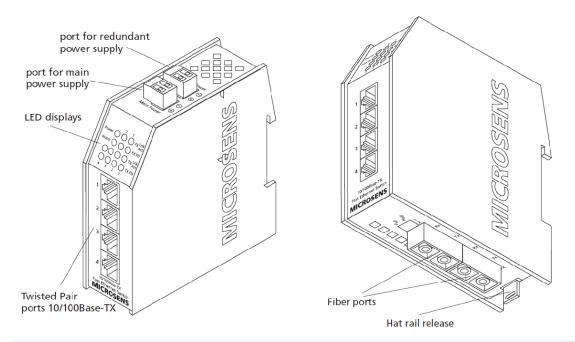
Qualität – Made in Germany

In order to guarantee a consistently high quality of the Switch, all versions are manufactured in Hamm, Germany.

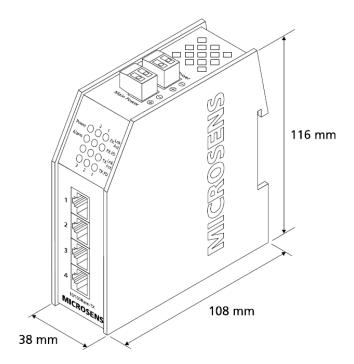
Here, all devices are subjected to a so-called burn-in test, which guarantees the reliability of the switch in long-term operation. For this purpose, the switches are tested for a longer period of time in permanent operation (approx. 48 h) under high load to check their functionality. In this way, we are able to detect early failures even before delivery.

Connections

(Only 1 optical fiber connection available, picture differs(!))



Dimensions



Order Information

Description	24VDC, non-PoE*	48VDC, 4x PoE
Industrial Profi Line Switch		
5-Port FE Industrial Profi Line Switch 1x 100FX ST/MM 1310nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650461M	MS650461PM-48
5-Port FE Industrial Profi Line Switch 1x 100FX SC/MM 1310nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650462M	MS650462PM-48
5-Port FE Industrial Profi Line Switch 1x 100FX SC/SM (15km) 1310nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650464M	MS650464PM-48
5-Port FE Industrial Profi Line Switch 1x 100FX ST/SM (15km) 1310nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650465M	MS650465PM-48
5-Port FE Industrial Profi Line Switch 1x 100FX SC/SM (40km) 1310nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650467M	MS650467PM-48
5-Port FE Industrial Profi Line Switch 1x 100FX ST/SM (40km) 1310nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650468M	MS650468PM-48
5-Port FE Industrial Profi Line Switch 1x 100FX SC/SM (80km) 1550nm, 4x 10/100TX, 2x VDC, DIN-Rail, managed, RC	MS650469M	MS650469PM-48

 $^{^{*}}$ also available in the X version with extended operating temperature range (-40..+75°C).

Accessories

	Description	ArtN0.
External power supplies for industrial use 24 VDC		
The state of the s	Industrial DIN-Rail power supply 24VDC/1,25A (30W) Input 100240VAC/120375VDC, Out: 2428VDC, -20+70°C	MS700440
TOP OF A PARTICULAR PROPERTY OF A PARTICULAR P	External power supplies for industrial use with PoE 48VDC	
	DIN-power supply 4856 VDC / 1,25 A, Wide range input 85264 VAC/ 85375 VDC	MS700430
nmn	Network management	
Server	NMP Professional – Network Management Plattform Software incl. one year update license	MS200160-1
	NMP Professional – additional update license for n years	MS200161-n
	NMP Server – Network Management Plattform Software incl. one year update license	MS200164-1
	NMP Server – additional update license for n years	MS200165-n
	NMP Server - additional client access licenses	MS200166-Cn

Service

Description	ArtNo.
Warranty extension after 24-month manufacturer's warranty**	
Warranty extension 1 extra year	MSGV01
Warranty extension 2 extra years	MSGV02
Warranty extension 3 extra years	MSGV03
Pre-configuration according to customer requirements	
Pre-configuration according to customer requirements	MSKonfig

^{**} The manufacturer's warranty is defined in the general terms and conditions (\underline{AGB} ($\underline{\S 9}$)) of MICROSENS GmbH & Co. KG.

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