Datasheet

MICROSENS

Entry Line
Industrial Fast Ethernet 8-Port Switch TP

Features

8-Port Switch

MS657140X 8x TP Switch

Ports

- 8x 10/100Base-TX
- 1x pluggable screw connector
- 1x Grounding screw

Housing

- DIN rail bracket or wall bracket (scope of delivery)
- Protection class: IP 30
- Metal housing

Power supply

- Input 12..56 V DC
- an external power supply (230 V AC) is not included in scope of delivery

Technical Details

Fast Ethernet Switch

Type	Fast Ethernet Switch Layer 2, IEEE 802.3 compliant
Switching Fabric	1.6Gbps
Data Processing	Store-and-forward
MAC Table	1K
Packet Buffer	1MB

Environment

Operating temp.	-40..+75 °C
Humidity	5 ..95%, non condensing
Storage	-40..+85 °C

Twisted Pair Ports

Type	Fast Ethernet 10/100Base-TX
Quantity	8
Connection	RJ-45 socket, shielded
Cable type	Shielded Twisted-Pair Cable, Cat. 5, Impedance 100 Ohm,

Displays (LEDs)

Power P1, P2	Green: OK
Port	Green (static): Link OK Green (blinking): Activity
Alarm	Amber (on): only 1x PWR connected Amber (off): Both PWR connected

Power Supply (DC-Voltage)

Input	12..56 V DC (redundant)
Power consumption	Typ. 3 W
Grounding (PE)	Screw
Connection	P1 +/-, P2 +/- red.
Protection	▪ reverse polarity protection ▪ Overvoltage protection

Mechanical

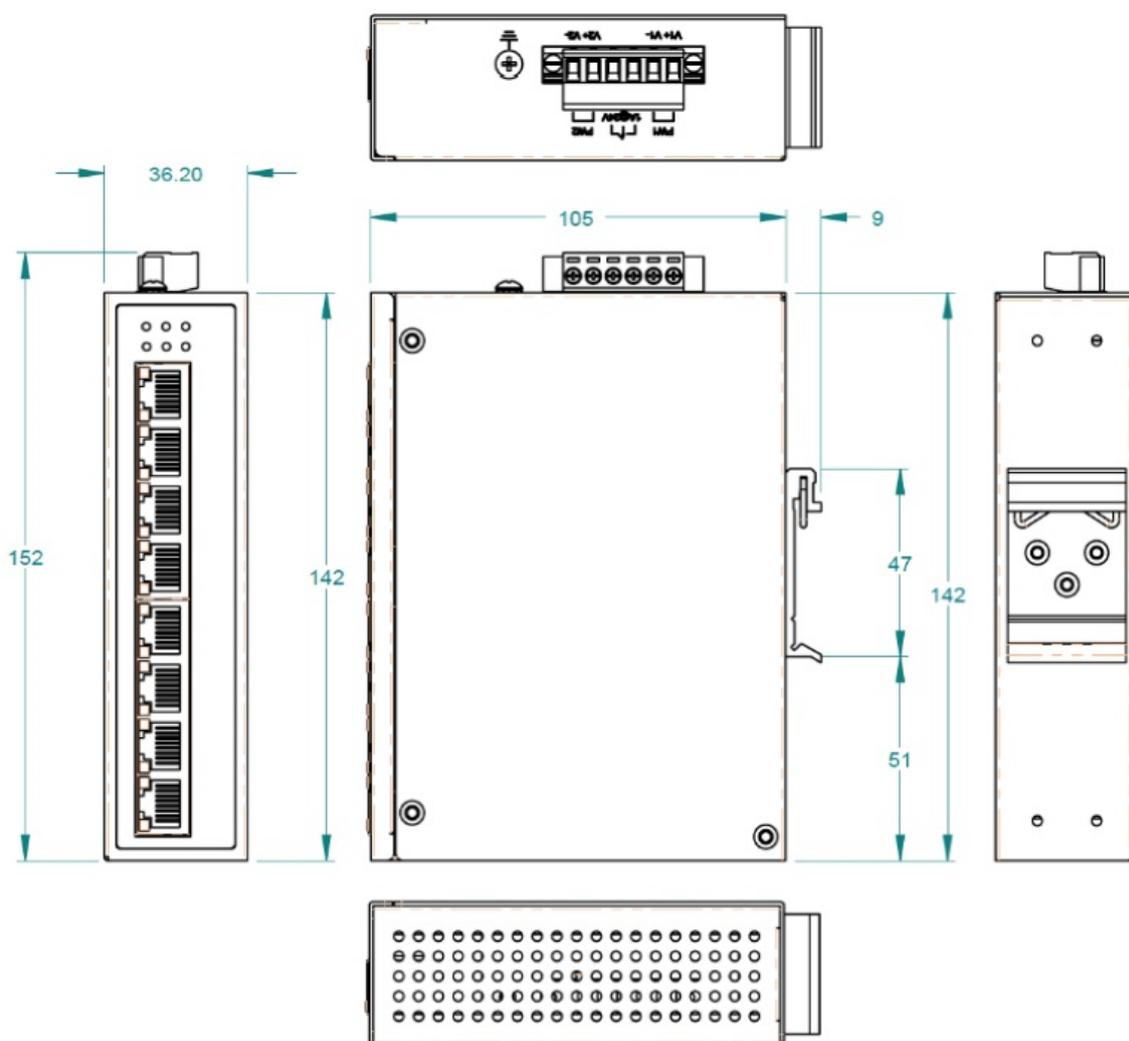|	
Dimensions incl. DIN-Adapter	36,2 x 105 x 142 mm (L x W x H, without connections)
Mounting	DIN-ISO support rail (35mm) to DIN EN 50022 or wall mounting
Housing protection class	IP30 (Metal housing)
Alarmcontact	1 A / 24 V max.

Standards

EMI	EN 55022 class A CE EN61000-4-2 CE EN61000-4-3 CE EN61000-4-4 CE EN61000-4-5 CE EN61000-4-6 CE EN61000-4-8 CE EN61000-4-11 CE EN61000-6-2 CE EN61000-6-4
Safety	EN60950-1
IEEE	802.3 10Base-T 802.3u 100Base-TX 802.3x Flow Control
Others	IEC60068-2-27 (Schock) IEC60068-2-32 (Free Fall) IEC60068-2-6 (Fibration)

Twisted Pair Connections (RJ-45)

The integrated auto-crossing function of all twisted pair ports makes the use of crossed patch cables unnecessary. The Switch automatically detects the pinout of the connected cable and adapts the port accordingly. For all connections standard 1:1 twisted pair cables can be used.

The Auto-negotiation mechanism detects the speed and transmission mode (full or half duplex) between connected ports automatically. A manual configuration is not required.

Dimensions

Power Supply

Power is supplied by an external power supply with an output voltage of 12..56 V DC. The power supply is not included in the scope of delivery, but can be ordered separately (e.g. MS700420). It is connected via the pluggable screw terminal on the top of the device. The redundant power supply is connected via the second screw terminal.

Safety Notes

Attention: Infrared light, which is used for data transmission in a fiber optic network, is not visible to the human eye, but can still cause damage.

To avoid damage to the eyes:
-       Never look directly with the eye into the outputs of optical components or fiber optics. Risk of blindness!
-       Cover all unused optical connections with caps.
-       Do not put the transmission line into operation until all connections have been made

The active laser technology used in this product complies with **Laser-Class 1**

DANGER: Conductive components of power and telecommunications networks can carry dangerously high voltage.

To avoid electric shock:
-   Do not carry out installation or maintenance work during lightning storms.
-   All electric installations must be carried out in accordance with local regulations.

Order Information

Industrial Fast Ethernet Switch TP

	Description	Art.-No.
	8-Port Industrial Fast Ethernet Switch, **Extended temperature range -40..+75°C**	
	Industrial Switch, 8x 10/100Base-TX, 12..56 V DC redundant	**MS657140X**

Alternativ Entry Line Products

	Description	Art.-No.
	8-Port Industrial Gigabit Ethernet Switch, **Extended temperature range -40..+75°C**	
	Industrial Gigabit Switch, 2x 12..56 V DC redundant	**MS657208X**
	Industrial Gigabit Switch, 8x 10/100/1000Base-T mit PoE+ (30 W), 2x 44..56 V DC redundant	**MS657208PX**
	5-Port Industrial Fast Ethernet Switch, **Extended temperature range -40..+75°C**	
	Industrial Switch, 5x 10/100Base-TX, 9..56 V DC redundant	**MS657100X**
	Industrial Switch, 5x 10/100Base-TX, of which 4x with PoE+, 48..56 V DC redundant	**MS657100PX**

Accesoires

	Description	Art.-No.
	Industrial DIN-Rail Power Supply	
	Industrial DIN-Rail Power Supply 24VDC/1,25A (30W) Input 100..240VAC/120..375VDC, Out: 24..28VDC, -20..+70°C	**MS700440**
(Abb.: MS700456)	DIN-Rail Power Supply **45...55** V DC / 2.5 A (120W), Wide range input 90…132 / 180…264 V AC Operating temperature range -35…+70°C	**MS700456**