Entry Line
Fast Ethernet Switches

- **Easy handling (Plug & Play)**
- **Segment separation and speed adaptation**
- **Compact design for DIN-rail mounting**
- **Layer 2 switch according to IEEE802.3u**
- **Redundant power supply input**
- **Fiber versions available**
- **Monitoring via potential-free contact**
- **Extended temperature range**

Since many years MICROSENS belongs to the established manufacturers of Industrial Ethernet components (switches and converters). Beside the already widely used Fiber Switches, MICROSENS now offers additional devices based on twisted pair cabling.

In smaller and already existing industrial communication networks with short distances the use of copper cables is still suitable. Especially in this environment the advantages of the Entry Line product family are significant.

The new switches support the data rate Ethernet as well as Fast Ethernet and are available with 5 or 8 twisted pair ports. Optional the switches are available with 1 or 2 fiber ports.

Due to the implemented autonegotiation feature the twisted pair ports are adjusting automatically to the correct speed of the connected end device. Additionally the copper ports are offering the auto crossing feature. The chassis is designed for mounting on 35 mm DIN-rails.
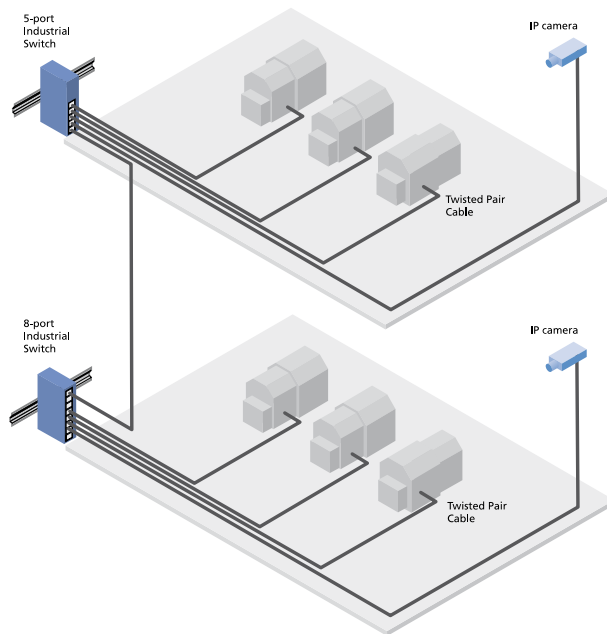
The devices are ready for instant use, a configuration by management is not necessary. With a pluggable connector the power supply is done by external power supplies with a voltage of 12 - 48 V DC. Therefore the device can also be used in telecommunication or power distribution centres (redundant supply possibly). A relay contact allows the monitoring of the devices.

All new Entry Line devices distinguish themselves with easy handling (Plug & Play) and do not need extensive configuration. New developments are focussing on increasing the port numbers.

For applications requiring higher network complexity, the enhanced line of MICROSENS Industrial Switches offers an extended reliability with redundant ring structures and extensive management features.

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Application

Ordering Information 5 and 8 Ports FE Switches

Art.-No.	Description	Connectors
MS655100	Industrial Fast Ethernet Switch, Entry Line, 5x 10/100Base-TX	5x RJ-45 2x Power, 1x Alarm
MS655140	Industrial Fast Ethernet Switch, Entry Line, 8x10/100Base-TX	8x RJ-45 2x Power, 1x Alarm

Ordering Information FE Switches with Fiber Uplink

Art.-No.	Description	Connectors
1x Fiber Uplink		
MS655102	Industrial Fast Ethernet Switch, Entry Line, 4x 10/100Base-TX, 1x100Base-FX Multimode SC	4x RJ-45 1x SC duplex 2x Power, 1x Alarm
MS655104	Industrial Fast Ethernet Switch, Entry Line, 4x 10/100Base-TX, 1x100Base-FX Single Mode SC	4x RJ-45 1x SC duplex 2x Power, 1x Alarm
2x Fiber Uplink		
MS655122	Industrial Fast Ethernet Switch, Entry Line, 4x 10/100Base-TX, 2x100Base-FX Multimode SC	4x RJ-45 2x SC duplex 2x Power, 1x Alarm
MS655124	Industrial Fast Ethernet Switch, Entry Line, 4x 10/100Base-TX, 2x100Base-FX Single Mode SC	4x RJ-45 2x SC duplex 2x Power, 1x Alarm

Accessories

Art.-No.	Description	Connectors
MS700420	DIN-rail power supply 24 Watt 24 V / 1.0 A, wide range input 85-264 VAC	In: 3-pin Out: 2-pin
MS700421	DIN-rail power supply 60 Watt 24 V / 2.5 A, wide range input 85-264 VAC	In: 3-pin Out: 5-pin
MS700422	DIN-rail power supply 120 Watt 24 V / 5 A, wide range input 85-264 VAC	In: 3-pin Out: 5-pin

Further products on request.

MICROSENS reserves the right to make any changes without further notice to any product to improve reliability, function or design. MICROSENS does not assume any liability arising out of the application or use of any product.
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Technical Specifications

Type
Fast Ethernet Industrial Switch
5/8 x 10/100Base-TX or
4x 10/100Base-TX + 1/2 x 100Base-FX

Cable type
Shielded Twisted Pair cable,
100 Ohm, Category 5,
Pinout RJ45-ports auto crossing

Fiber type
Multimode 50 or 62.5/125 μm, Distance: 2 km
Single Mode 9/125 μm, duplex, Distance: 30 km (standard)

Data rate
10 or 100 Mbps

LED displays
Per port: Link/Activity (Green),
Full duplex/Collision (yellow)

Per unit: Power1 (green),
Power2 (green), Fault (red)

Mounting
35 mm DIN-rail, according
DIN EN 50 022 and wall mount

Power supply
12 - 48 V DC connections with screw terminals, redundant ports

Dimensions
30 x 95 x 140 mm (w x d x h)

Operating temperature
-10°C to 60°C

Storage temperature
-40°C to 85°C

Rel. humidity
5% to 95% non condensing

EMI
FCC Class A, CE EN61000-4-2,
CE EN61000-4-3, CE EN-61000-4-4,
CE EN61000-4-5, CE EN61000-4-6,
CE EN61000-4-8, CE EN61000-4-11,
CE EN61000-4-12, CE EN61000-6-2,
CE EN61000-6-4

Stability Testing
IEC60068-2-32 (Free fall),
IEC60068-2-27 (Shock),
IEC60068-2-6 (Vibration)