



# TSF010

## FLAT ETHERNET SWITCH



Energy & utilities



Enterprise



Industrial & automation



Retail



Smart city

### 3-PIN POWER INPUT

Flexible and tailor-made for industrial use

### FLAT & COMPACT

Flat and compact design weighing only 142 g

### INTEGRATED DIN RAIL BRACKET

Easy mounting for plug-and-play deployment

### 7-57 VDC

Suitable voltage range for industrial applications

**Ethernet**

Ethernet	5 x ETH ports, 10/100 Mbps, supports auto MDI/MDIX crossover
IEEE 802.3 series standards	802.3i, 802.3u, 802.3ab, 802.3x, 802.3az

**INDUSTRIAL PROTOCOLS**

Profinet	Profinet Class A conformance (available with optional order code)
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**Performance Specifications**

Bandwidth (Non-blocking)	10 Gbps
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Packer buffer	128 KB
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MAC address table size	2K entries
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Jumbo frame support	9216 bytes
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**Power**

Connector	3-pin industrial DC power socket
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Input voltage range	7 – 57 VDC, overvoltage protection: 60 Vmax, reverse polarity protection: 80 Vmax, surge protection: min 64.4V/max 71.2V breakdown voltage, 93.6V maximum reverse voltage @4.3A maximum reverse surge current
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Input voltage range*	12-40 VAC (50/60Hz)
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\*Feature availability varies by order code

Power consumption	Idle: 1 W / Max: 1.5 W
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**Physical Interfaces**

Ethernet	5 x RJ45 ports, 10/100 Mbps
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Status LEDs	1 x Power LED, 10 x ETH status LEDs
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Power	1 x 3-pin industrial DC power socket
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Grounding	Grounding terminal on power connector
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**Physical Specification**

Casing material	Anodized aluminum housing and panels
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Dimensions (W x H x D)	113 x 28 x 50 mm
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Weight	142 g
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Mounting options	Integrated DIN rail bracket
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**Operating Environment**

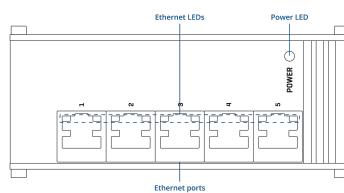
Operating temperature	-40 °C to 75 °C
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Operating humidity	5% to 95% non-condensing
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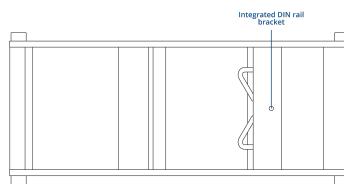
Ingress Protection Rating	IP30
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## Hardware

### FRONT VIEW



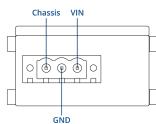
### BACK VIEW



### RJ45 LED MEANING



### POWER SOCKET PINOUT



## Ordering

Standard package\*



TSF010



QUICK START GUIDE

\*Standard package contents may differ based on standard order codes.

For more information on all available packaging options – please [contact us](#) directly.

## Classification codes

HS Code: 851762

HTS: 8517.62.00

### Available versions

TSF010 *****0 Input voltage range: 7 – 57 VDC	N/A	TSF010000000 / Standard package without PSU
TSF010 *****1 Profinet Class A conformance Input voltage range: 7 – 57 VDC	N/A	TSF010000001 / Standard package without PSU
TSF010 *1****0 Input voltage range: 12-40 VAC (50/60Hz)	N/A	TSF010100000 / Standard package without PSU
TSF010 *1****1 Profinet Class A conformance Input voltage range: 12-40 VAC (50/60Hz)	N/A	TSF010100001 / Standard package without PSU

## TSF010 spatial measurements

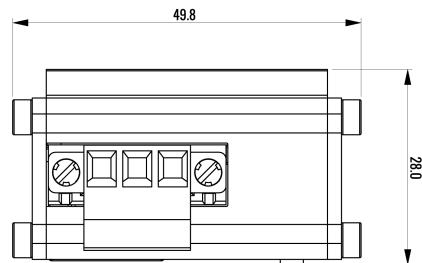
### Available versions

Device housing (W x H x D)*	113 x 28 x 50 mm
Box (W x H x D):	140 x 32 x 56 mm

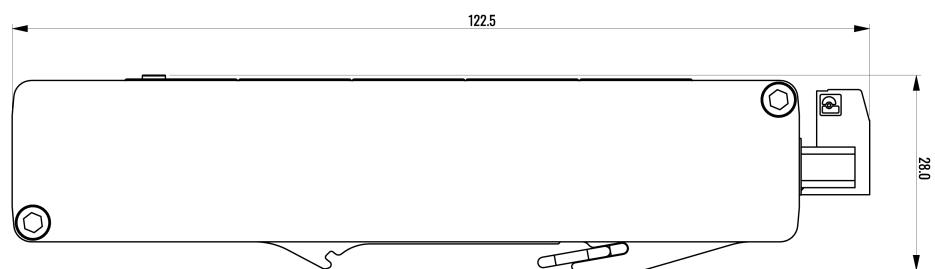
\*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below

**TOP VIEW**

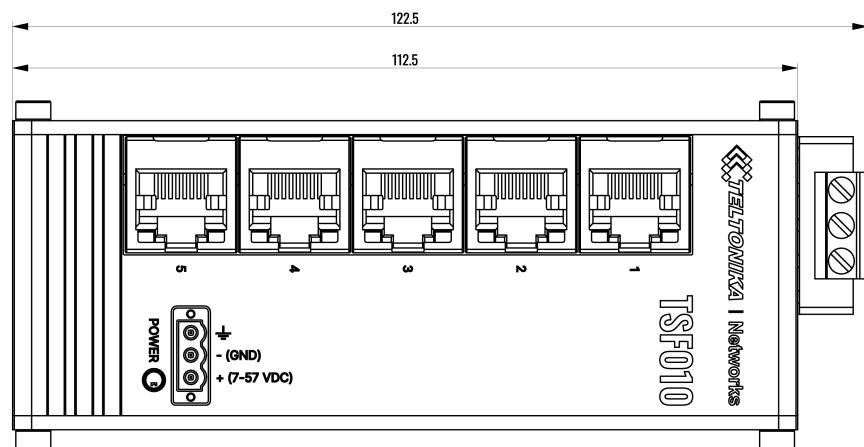
The figure below depicts the measurements of device and its components as seen from the top:

**RIGHT VIEW**

The figure below depicts the measurements of device and its components as seen from the right:

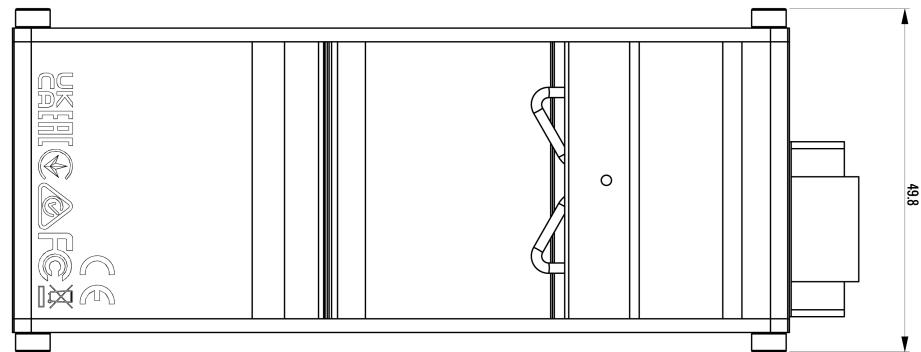
**FRONT VIEW**

The figure below depicts the measurements of device and its components as seen from the front panel side:



**REAR VIEW**

The figure below depicts the measurements of device and its components as seen from the back panel side:

**MOUNTING SPACE REQUIREMENTS**

The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:

