

IE-SW5-ECO-FLAT

Industrial Ethernet 10/100 Mbps Mini-Switch

INSTALLATIONGUIDE

The IE-SW5-ECO-FLAT switching hub is designed for the Industrial Automation environment.

Like all Ethernet switches from Weidmüller, it features non-blocking (full wire-speed) operation. It divides an Ethernet network into five collision domains - "bridging" data links to create larger network diameters than possible with repeating hubs.

Each port automatically negotiates its data rate to 10 Mbps or 100 Mbps - controlling data flow with the PAUSE function in full-duplex links or with the back-pressure method in half-duplex links.

Port assignments are learned by reading Ethernet frames and logging the source addresses to a table. Throughput is improved by restricting traffic to those ports party to a data exchange - while other data is simultaneously exchanged on other ports.

Store-and-forward operation is implemented and broadcast, multicast, or unicast transmissions are received by all ports.

The IE-SW5-ECO-FLAT has five Auto-MDIX ports for attaching local devices. In addition to a power LED, each port has one LED showing link/activity/rate and one showing duplex status.

The unit operates from a wide range of low-voltage AC or DC power.

The IE-SW5-ECO-FLAT is provided with a writable label for easy identification of the remote device attached to each cable.

SPECIFICATIONS

Electrical

INPUT	DC	AC
Voltage:	10-36	V8-24 V
Power:	5 W	5 VA
Frequency	N/A	47-63Hz

Temperature

Operating Temperature: 0°C to +60°C
 Storage Temperature: -40 C to +85°C

Mounting

DIN-rail TS-35

Compliance

CE-
 FCC, part 15, Class A
 EN50081-2
 EN50082-2



Industrial Control Equipment
 4EA4
 For Use In Class 2 Circuits

Functional

Compliance: ANSI/IEEE 802.3
 Data Rates: 10 /100 Mbps
 Signaling: 10BaseT and 100BaseTX

Connectors: Shielded RJ-45
 Segment Length: 100 m (max)

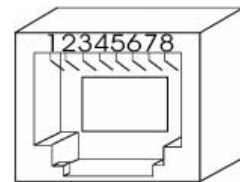
LED- Indicators

Power green
 Activity/ Link green or yellow
 Duplex green

RJ45 Connector Pin Assignment

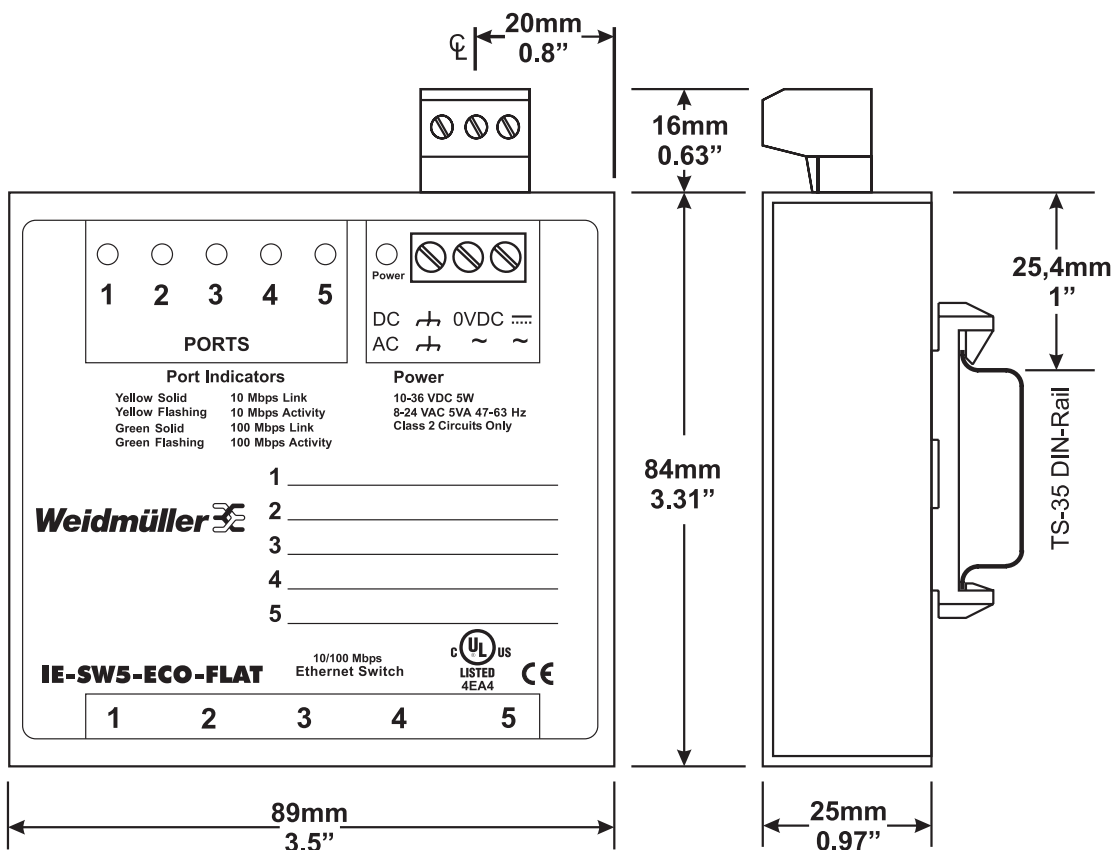
Pin Funktion

- 1 TD+
- 2 TD-
- 3 RD+
- 6 RD-



(All other pins are unused.)

DIMENSIONAL DRAWING



POWER OPTIONS

Power Considerations

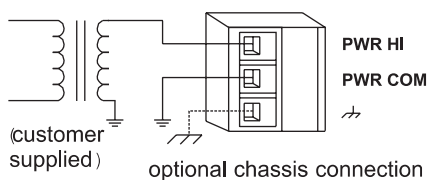
Voltage in the range of 10-36 VDC or 8-24 VAC must deliver current commensurate with 5-watt power consumption. The recommended size for solid power conductors is 16-22 AWG; for stranded conductors, use 16-18 AWG. Ground is directly connected to zero volts and the chassis is isolated from zero volts. Input connections are reverse-polarity protected.

Network Connections

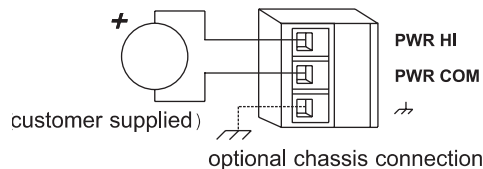
The switch employs Auto-MDIX technology so that either straight-through or crossover cables can be used to connect to network interface adapters or to another hub.

LED Indicators

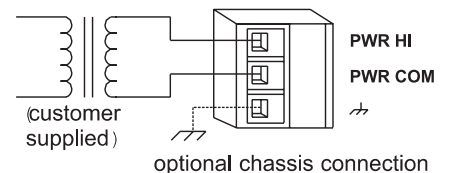
The "PWR" LED glows solid green when the switch is properly powered. To aid in troubleshooting, each port has two LEDs. The Port 1 LED labeled "L" glows solid if a link exists, flashes to show activity and shows data rate by color: green for 100 Mbps and yellow or 10 Mbps. The LED labeled "D" glows solid green if full-duplex is on or is unlit when that port is operating in half-duplex mode. The LEDs of Ports 2-5 are unlabeled but work the same.



**AC Powered with
Grounded Secondary**



DC Powered



AC Powered

WARRANTY FOR THIS PRODUCT

Weidmueller Interface GmbH & Co KG warrants this product to the original purchaser for five year from the product's shipping date. If a Weidmueller product fails to operate in compliance with its specification during this period, Weidmueller will, at its option, repair or replace the product at no charge. The customer is, however, responsible for shipping the product; Weidmueller assumes no responsibility for the product until it is received. This warranty does not cover repair of products that have been damaged by abuse, accident, disaster, misuse, or incorrect installation. Weidmueller's limited warranty covers products only as delivered. User modification may void the warranty if the modification damages the product, in which case this warranty does not cover repair or replacement.

This warranty in no way warrants suitability of the product for any specific application.

Manufacturer:

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Klingenbergstrasse 16**

**32758 Detmold
Germany**

DECLARATION OF CONFORMITY

EMC Directive 89/336/EEC as amended by 92/31/EEC & 93/68/EEC; General Product Safety Directive 92/59/EEC
EN 55022:1995 (CISPR22: 1993), Class A; EN 50082-2:1995, EMC - Part 2: Industrial Environment