Datasheet

DeviceNet™

PowerTap and DeviceTap Modules

Weidmuller’s newest family of interface modules makes wiring a DeviceNet system much easier.

Device taps provide an access point for drop lines while the power tap connects a power supply to the network.

Network connections are via tension clamp terminals. Terminating wires is fast and reliable. Each terminal is marked with its function (i.e. +V, H, DR (drain), L, -V) and the colour code for the wire (RD, WH, BA (bare), BU, BK respectively).

The power tap modules include a 6A schottky diode allowing redundant or parallel power supplies to power the network. The PowerTap version A module also functions as a device tap.

Both power tap and device tap modules comply with ODVA requirements.

Each module is available in 3 configurations:
- DIN rail mounted (32mm & 35mm)
- housed in a panel mount package
- direct mount (no housing)
DeviceNet™ PowerTap and DeviceTap Modules

**DEVICETAP**

- **NETWORK** T1B1
  - +V - +V
  - H - H
  - L - L
  - +V - +V
  - H - H
  - DR - DR
  - L - L

- **DROP LINE** T1B3
  - +V
  - H
  - DR
  - L
  - +V
  - L

**POWERTAP (version A)**

- **NETWORK** T1B2
  - +V
  - H
  - DR
  - L
  - L

- **DROP LINE** T1B3
  - +V
  - H
  - DR
  - L
  - +V
  - L

**Dimensions**

- **cat.#991642 0000**
  - 65.3mm x 47.4mm
- **cat.#991643 0000**
  - 65.3mm x 47.4mm
- **cat.#991638 0000**
  - 65.3mm x 47.4mm
- **cat.#991641 0000**
  - 65.3mm x 47.4mm
- **cat.#991639 0000**
  - 65.3mm x 47.4mm
DeviceNet™ PowerTap and DeviceTap Modules

POWERTAP (version B)

This version of PowerTap (version B) allows multiple DC power supplies to power a DeviceNet™ network without connecting the supplies in parallel. The returns (−V) of each supply are connected together but the (+V) lines can be left independant.

Two jumpers allow the user to decide which segment of the network each power supply will operate. This allows the total network current to exceed Class B levels (4.2A@24Vdc) but no single segment or power supply needs to exceed it. This is accomplished by using jumpers on each PowerTap module.

Each module includes schottky diode to prevent a failed power supply from sinking current from the network in the case of power supplies being connected in parallel.
Mini DeviceTap Module

Designed for DeviceNet™ systems, this module is a compact means of adding I/O devices to the network.

Requiring just 37mm of TS35 or TS32 DIN rail, the module provides tension clamp connections for the network and the I/O device. Tension clamp connections are quick to use, vibration resistant, and accept 26-14 AWG wires.

Catalog number: 991762 0000