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TNC-D2011

## TNC-D2011

### 2.5 A SWITCHING POWER SUPPLY UNIT, SUPPLYING VOLTAGE TO THE CONTROLLER OR TEXT DISPLAY

Controlled power supply for sensors, actuators, sensor electronics and controller

- High efficiency of > 87 %
- Input and output with overvoltage protection
- Can be attached to a mounting rail, no tools required
- Output voltage adjustable up to 28 V DC
- Overload protection, up to 1.5 × nominal current
- Very high efficiency, hence very low heat build-up
- LED for secondary voltage indication

## Application

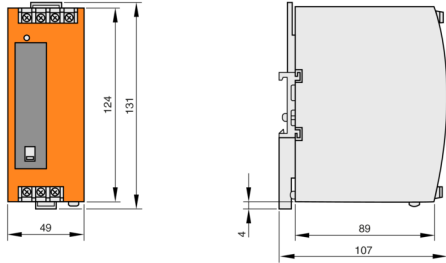


### Application

- Switching power supply unit TNC-D2011 (24 V DC; 2.5 A)
- Power supply for AS-i controllers and for operating and display units
- Very high efficiency of 87.5 %
- Low ripple, < 0.25 mV
- High reliability

## TECHNICAL INFORMATION

## AS-i switching power supply unit TNC-D2011



Description	TNC-D2011
Output current	2.5 A
Nominal voltage, primary	115/230 V AC
Input voltage range	85 - 132 V AC/176 - 264 V AC/160 - 375 V DC
Nominal frequency	47 - 63 Hz
Efficiency	87.5 %
Casing	Aluminium
Protection level	IP 20
IEC protection class	I (protective earth)
Connection	Terminals 1.5 - 6 mm <sup>2</sup>
Temperature range	-10 to +60 °C
Derating	1.5 W/K (60 - 70 °C)
Output voltage	24 V DC (± 5 %/-1 %) to SELV/PELV
Power ON delay time	< 20 ms
Residual ripple	< 25 mV
Mains buffering time	> 20 ms
Short-circuit protection / overload protection	Yes (to IEC 61140)
EMC	EN 50081-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4
MTTF	294 years
Overvoltage protection	32 V
LEDs	Green: output voltage

### Standard description (characteristics)

Switching power supply unit TNC-D2011, supplying voltage to the controller or text display.

- Nominal voltage: 115/230 AC V
- Output voltage: 24 V DC (+5 %/-1 %), SELV/PELV
- Output current: 2.5 A
- Nominal frequency: 47 - 63 Hz
- Efficiency: 87.5 %
- Connection: Terminals, 1.5 to 6 mm<sup>2</sup>
- Casing materials: Aluminium
- Ambient temperature: -10 to +60 °C
- Protection level: IP 20
- Status display: LED green, output voltage
- Make: TROX GmbH or equivalent
- Type: TNC-D2011

# TNC – D1030



**1** Switching power supply

**unit**

TNC-D1020 Output current 1.3 A

TNC-D2011 Output current 2.5 A

TNC-D2012 Output current 5 A

**TNC-D2013** Output current 10 A