

PSD5201

I.S. SIL3 Power Supply for Hazardous Area Equipment

The PSD5201 is a single channel Power Supply able to drive measuring, process control equipment in Hazardous Area, providing isolation between supply and output. Typical applications are intrinsically safe high-power devices, transmitters or other equipment.

FEATURES

- SIL 3 / SC 3
- Output to Zone 0
- Installation in Zone 2
- High output capability Power Supply for Hazardous Area equipment
- Output short circuit proof
- Two port isolation, Supply/Output

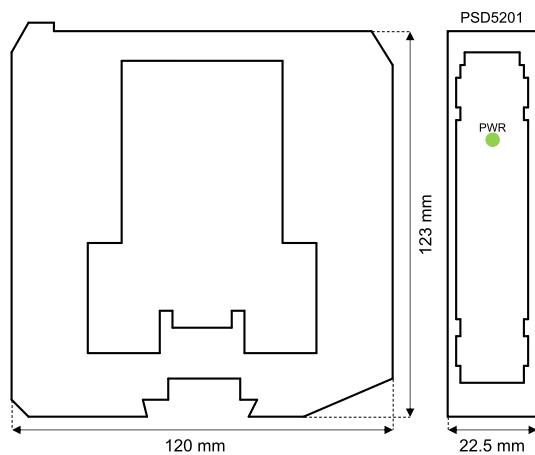
ORDERING INFORMATION

Ordering codes
PSD5201

Accessories

Bus Connector JDFT050, Bus Mounting Kit OPT5096.

OVERALL DIMENSIONS



TECHNICAL DATA

Supply

24 Vdc nom (21.5 to 30 Vdc), reverse polarity protected.

Current consumption: 200 mA @ 24 Vdc with 150 mA nominal load, 210 mA @ 24 Vdc with short circuited output, typical.

Power dissipation: 2.5 W @ 24 Vdc with 150 mA nominal load, typical.

Output

150 mA @ 14.5 V (20 V no load, 36.4 Ω series resistance).

Short circuit current: ≥ 155 mA.

Isolation

I.S. Out/Supply 1.5 kV.

Environmental conditions

Operating temperature: temperature limits -40 to $+70$ $^{\circ}\text{C}$.

Storage temperature: temperature limits -45 to $+80$ $^{\circ}\text{C}$.

Safety description

Associated apparatus and non-sparking electrical equipment.

$U_o = 21.5$ V, $I_o = 604$ mA, $P_o = 3243$ mW at terminals 13-14, 15-16.

$U_m = 250$ Vrms or Vdc, -40 $^{\circ}\text{C} \leq T_a \leq 70$ $^{\circ}\text{C}$.

Mounting

DIN-Rail 35 mm, with or without Power Bus.

Weight: about 145 g.

Connection: by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm² (13 AWG).

Dimensions: Width 22.5 mm, Depth 123 mm, Height 120 mm.

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.

