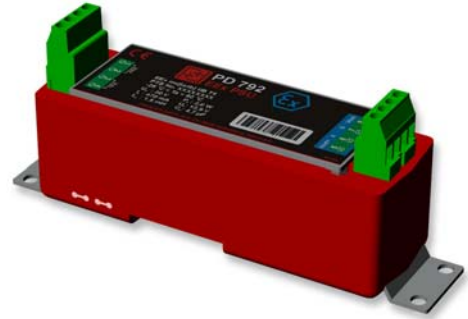


PD 792 / PD 791 EX Power Supply

FEATURES

- Power supply for intrinsically safe P-NET modules.
- Increased safety input.
- Intrinsically safe output.
- Galvanic separated input and output.
- Limited voltage, current and power output
- Compact size
- P-NET 4-wire interface (PD 792 only)
- P-NET Light-Link interface (PD 792 only)

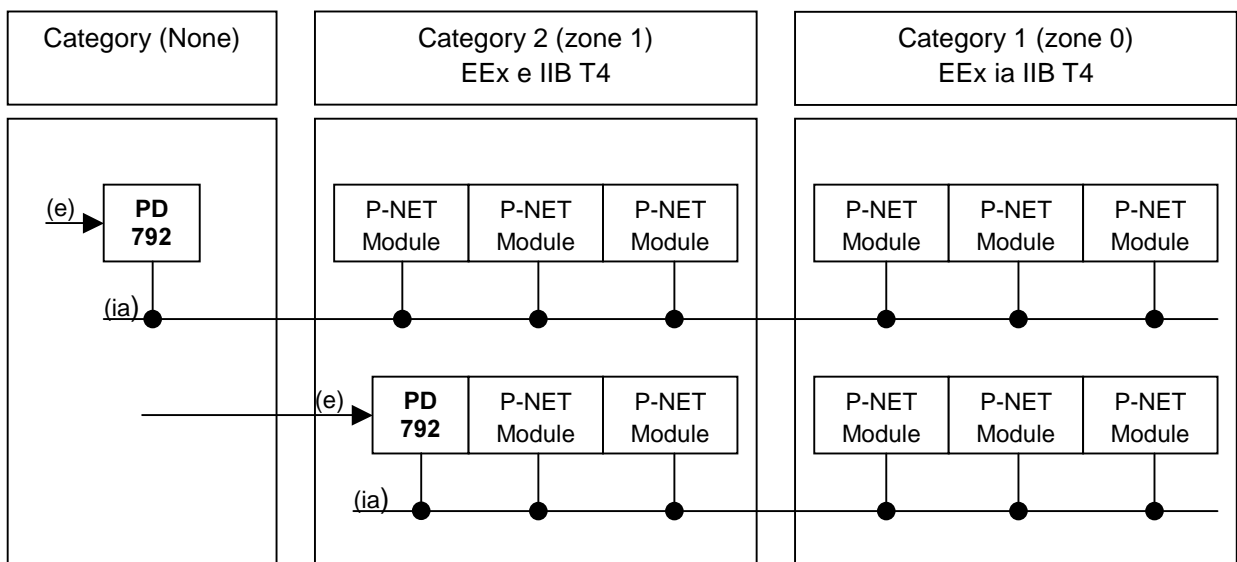


APPLICATION

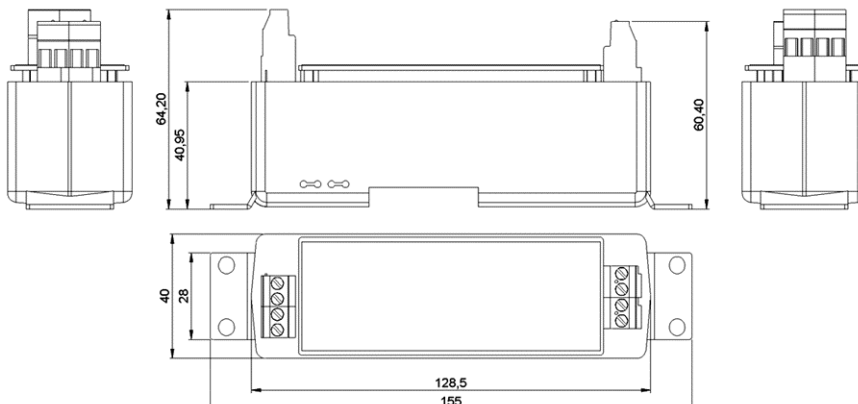
The power supply module is designed to EX environments. It has a voltage, current and power limited output to supply intrinsically safe P-NET modules.

The module is EEx m IIB T4 approved. The input of the power supply is designed with increased safety EEx(e) and the output with intrinsically safety EEx(ia).

Installation guide showing allowed power supply line and P-NET 4-wire configurations:



Scale drawing (in mm):



Specifications:**Increased safety (EEx(e)) Input:**

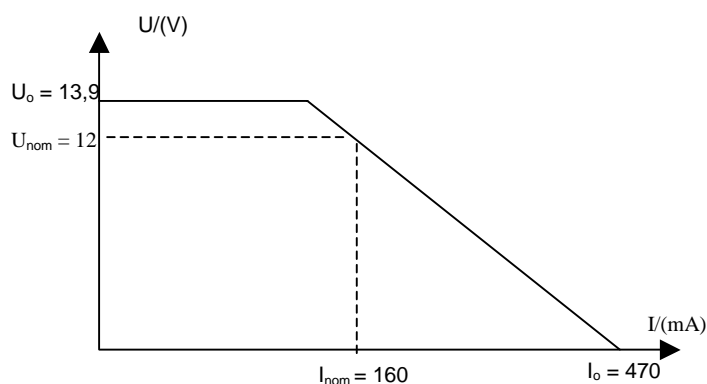
Nominal input voltage	$U_{nom} = 24 \text{ V}$
Minimum input voltage	$U_{min} = 22 \text{ V}$
Maximum input voltage	$U_{max} = 30 \text{ V}$

Intrinsically safe output (EEx(ia)):

Nominal output current	$I_{nom} = 160 \text{ mA}$
Open circuit voltage	$U_o = 13,9 \text{ V}$
Short circuit current	$I_o = 470 \text{ mA}$
Maximum power	$P_o = 2,8 \text{ W}$
Maximum capacitance	$C_o = 2,5 \mu\text{F}$ (PD 792) / $3,5 \mu\text{F}$ (PD 791)
Maximum inductance	$L_o = 0,15 \text{ mH}$

Ambient temperature:

Operation	$-25 \text{ }^\circ\text{C}$ to $+50 \text{ }^\circ\text{C}$
Storage	$-25 \text{ }^\circ\text{C}$ to $+70 \text{ }^\circ\text{C}$

I-U Characteristic for intrinsically safe output (EEx(ia)):**Approvals:****EX:**

The power supply modules are approved in compliance with:

EN50028 (encapsulated 'm').

The Increased safety (EEx(e)) input is in compliance with:

EN50019 (increased safety 'e').

The Intrinsically safe output (EEx(ia)) in compliance with:

EN50020 (intrinsic safety 'i').

EMC:

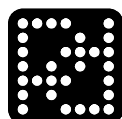
The modules are approved in compliance with the **EMC-directive no 89/336/EEC**.

Test limits are determined by the generic standards **EN 50081-1** for emission and

EN 61000-6-2 for immunity.

Produced by:

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