

# User manual for PD 4000/4095 EEx P-NET Controller

## FEATURES:

- Voltage supplied through intrinsically safe connection
- P-NET communication via intrinsically safe connection

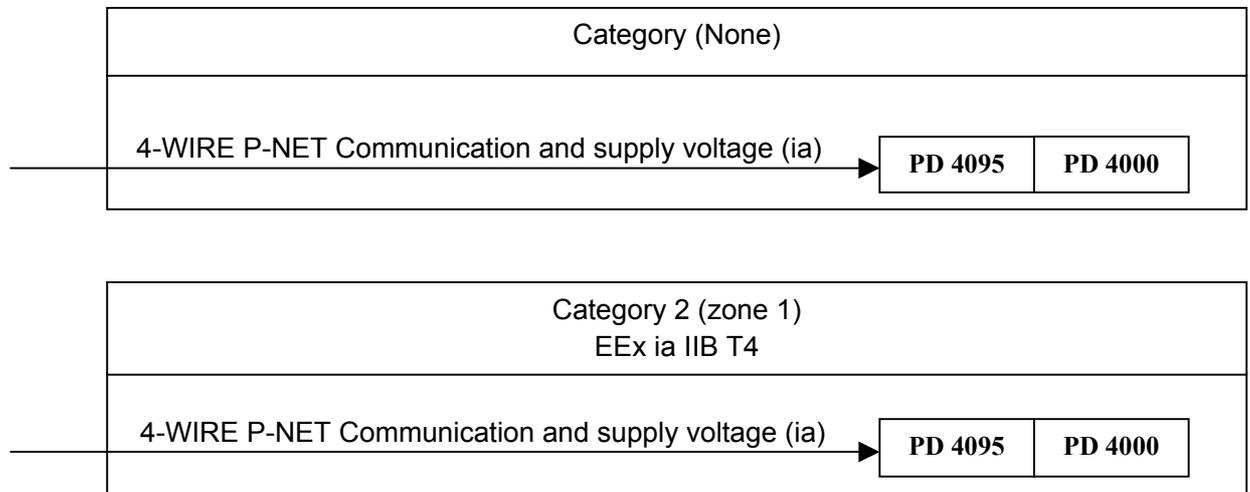


## APPLICATION:

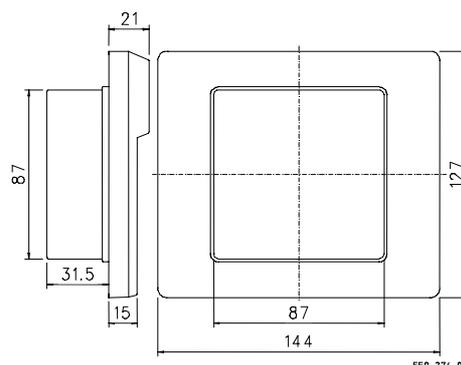
The PD 4095 module is an intrinsically safe power supply unit and a 4-WIRE P-NET interface designed to be used within EX environments as a supply unit for the PD 4000. The module has EEx ia IIB T4 approval.

4-WIRE P-NET is an inexpensive and practical solution because a common cable can be used for both the communication facilities and the supply voltage.

The figures below are an installation guide showing permitted configurations.



## SCALE DRAWING (in mm):



**SPECIFICATIONS:****Intrinsically safe (EEx(ia)) Input:**

Nominal input voltage	$U_{nom} = 12 \text{ V}$
Nominal current (PD 4095 + PD 4000)	$I_{nom} = 80 \text{ mA}$
Maximum input voltage	$U_i = 13.9 \text{ V}$
Maximum input power	$P_i = 2.9 \text{ W}$
Maximum internal capacitance	$C_i = 110 \text{ nF}$
Maximum internal inductance	$L_i = 2 \text{ }\mu\text{H}$

**Ambient temperature:**

Operation	-25 °C to + 65 °C
Storage	-25 °C to + 65 °C

**APPROVALS:**

 **0102**  **II 2 G**  
**EEx ia IIB T4**  
**PTB 04 ATEX 2001 X**

**EEx:**

The complete PD 4095 module is approved in compliance with the **EX standard EN50020** (intrinsic safety 'i').

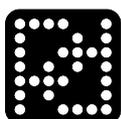
**EMC:**

The PD 4095 is 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 50082-2** for immunity.

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