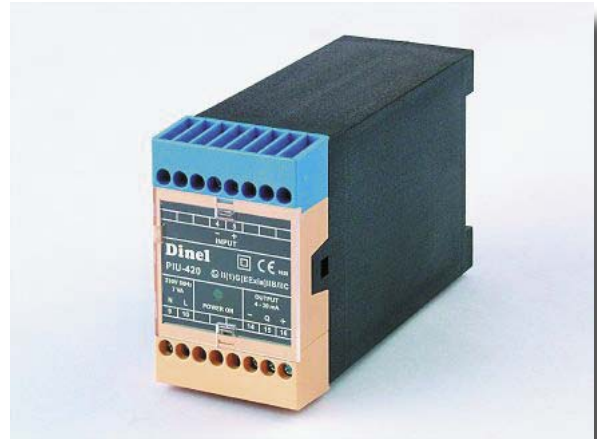


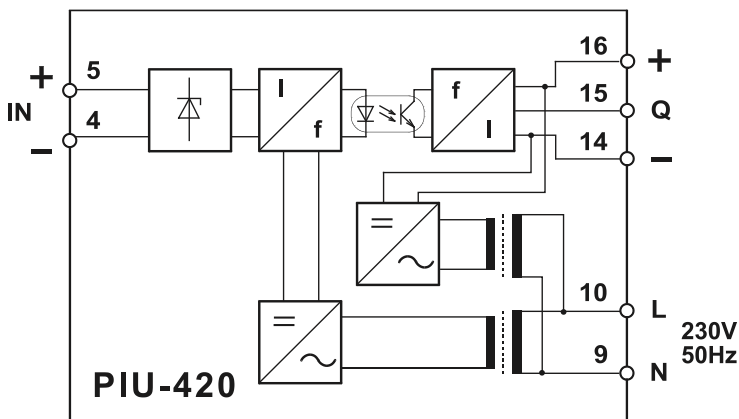
### Features



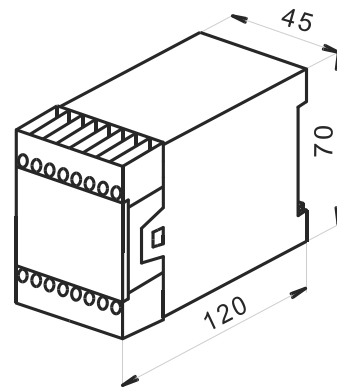
- intrinsically safe repeater for standard loop signals  
4 ÷ 20 mA / 4 ÷ 20 mA
- for transducer energising in hazardous (explosive) areas located in zone 2, zone 1, zone 0 (EN60079-10)
- galvanically separated input and output
- protection against short-circuit, current overload and overvoltage on both sides
- non-explosive performance **Ex II(1)G[EEXia]IIB/IIC**
- mounting into an installation case or distribution cabinet on DIN rail 35 mm
- possibility of connection to active or passive output (4 ÷ 20 mA)



### Block structure of PIU-420



### Dimension drawing



### Technical data

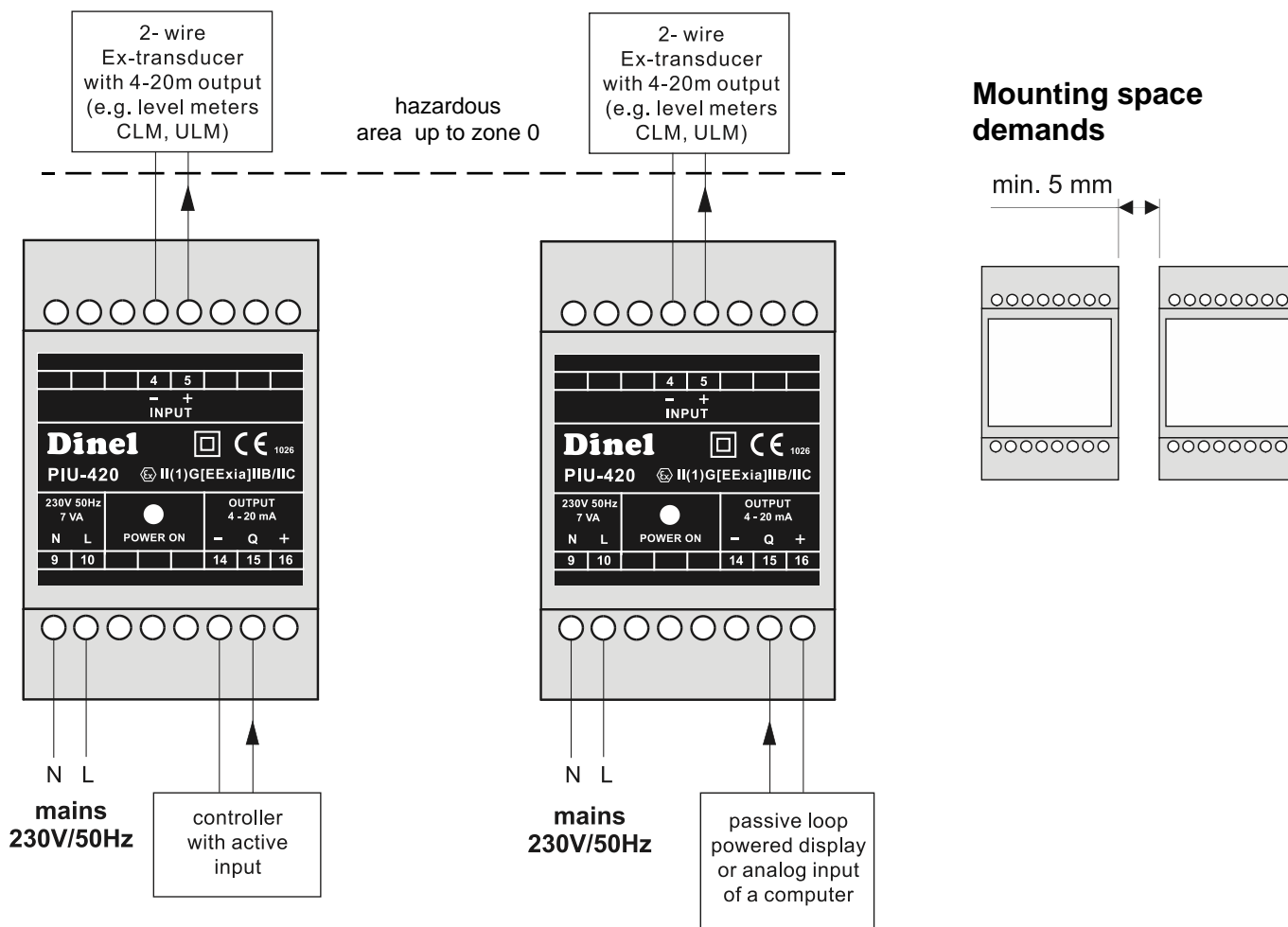
Nominal supply voltage	230V/50Hz
Allowed tolerance of supply voltage	±10%
Nominal power demand	7 VA
Input current	4 - 20 mA
Output current	4 - 20 mA
Output voltage $U_{5,4}$ (at 20mA load)	15,5 VDC
Output voltage $U_{16,14}$	12 VDC ±5%
Linearity error	0,05 %
Temperature drift	max. 0,5 $\mu$ AK <sup>-1</sup>

Maximum parameters: specification IIB  $U_o=20,2$  V,  $I_o=99$  mA,  $P_o=0,815$  W,  $C_o=1,38$   $\mu$ F,  $L_o=2,0$  mH  
 specification IIC  $U_o=20,2$  V,  $I_o=99$  mA,  $P_o=0,815$  W,  $C_o=213$  nF,  $L_o=1,3$  mH

Electric strength	mains 230V - input	3,5 kV
	input - output	3,5 kV
Ambient temperature		-30 ... +55 °C
Mechanical protection degree	- housing	IP 40
	- terminals	IP 20
Housing material		polycarbonate
Terminal material		CuBe
Maximal / recommended conductor size		1x4mm <sup>2</sup> / 0.5 - 1mm <sup>2</sup>
Weight		0,35 kg
Mains side protection		fuse T63mA

Connection to mains 230 V/50Hz is allowed only via switch or circuit breaker

## Possibilities of system connection



a) connection of output as a current sink

b) connection of active output (with internal supply voltage 12 VDC)

## Example of correct specification

PIU-420

Approval: FTZÚ - AO210, Ostrava - Radvanice  
Certificate No.: FTZÚ 02 ATEX 0212

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