

Isolation-/Supply Unit LDX2

for Ex - flow sensors of type

**v-sensors VA category 1 (zone 0)
in protective system
Ex ia IIC T6**

**v-sensors FA category 2 (zone 1)
in protective system
Ex ia IIC T6
(Ex ib IIC T6)**

**v-sensors FAR category 2 (zone 1)
in protective system
Ex ia IIC T6
(Ex ib IIC T6)**

For the Ex input of isolation-/supply unit the following is valid:
the intrinsically safe circuit is conductively decoupled from both the power supply and the output.

The isolation-/supply unit LDX2 supplies the intrinsically safe flow sensor VA or FA and conductively decouples the sensor signal from the output signal.

Installation note

The operation of the intrinsically safe isolation-/supply unit LDX2 is only permitted outside hazardous areas.

Conformity to standards

The isolation-/supply unit LDX2 meets the requirements of European standards:

EN60079-0 Common standards
EN60079-11 Intrinsic safety
EN60079-26 Special requirements category 1G

Installation in a CE approved housing

As required, the isolation-/supply unit LDX2 can be built into a CE approved EMC housing along with a non-Ex flow evaluation unit in LDG housing.

The Isolation-/Supply Unit LDX2 is a Ex-input unit for non-Ex flow evaluation units of Höntzsch. Therefore it is used for measuring flow in hazardous areas.

Input v/VA-Ex

intrinsically safe in protective system [Ex ia] IIC/IIB for non-directional sensing vortex flow sensors VA (v-sensors) in protective system Ex ia IIC T6 for category 1 or 2.

Input v/FA-Ex v/FAR-Ex

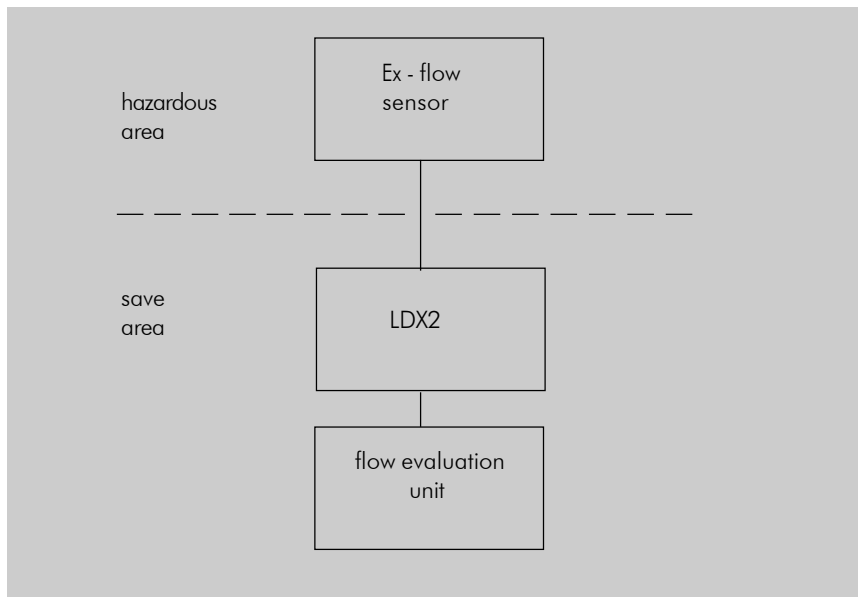
intrinsically safe in protective system [Ex ia] IIC/IIB for non-directional sensing vane wheel sensors FA (v-sensors) and directional sensing vane wheel sensors FAR (v-sensors) in protective system Ex ia IIC T6 for category 2 (or Ex ib IIC T6 for category 2).

Output v/VA

Opto-decoupled. The output v/VA has to be connected directly with the input v/VA of a Höntzsch evaluation unit.

Output v/FA, v/FAR

Opto-decoupled. The output v/FA, v/FAR has to be directly connected to the input v/FA, v/FAR of a Höntzsch evaluation unit.



Miniature housing LDG 16

This housing is for mounting by snap fastener onto 35 mm standard assembly rails according to DIN 46 277 and DIN EN 50 022 or screw fitting.

The housing is an insulating case corresponding to the specifications of the machine and automobile industry with a maximum of 16 protected terminals as per VDE 0100 and VGB 4.

Protective system: housing IP 40
terminals IP 20

Material: Macrolon
Connections: screwed terminals
Overall size: H/W/D = 75/55/110 mm

Isolation-/Supply Unit		LDX2-FA/FAR	LDX2-VA
Miniature housing	LDG16	•	•
Input	v/FA-Ex v/VA-Ex v/FAR-Ex	• • •	•
Output	v/FA v/VA v/FAR	• •	•
Power Supply	24 VDC ± 2%	•	•
Current Consumption	< 5 W	•	•
Working temperature range	-20 °C ... +60 °C	•	•

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