



Declaration of Manufacturer

We declare under our own responsibility that the product Flow Switch Type

VK3 ...

manufactured by

SIKA Dr. Siebert & Kühn GmbH & Co. KG

has undergone an ignition hazard assessment in accordance to DIN EN ISO 80079-36:2016 and has no potential ignition sources of its own when operated as intended. The above mentioned product is therefore not subject to Directive 2014/34/EU. The flow switch is a "simple electrical equipment" for connection to a certified intrinsically safe circuit in accordance with DIN EN 60079-11: 2012. The effective internal inductances and capacitances are negligibly small.

The flow switch is suitable for use in areas with an explosive atmosphere as follows. The flow switch may be used in zone 1. The ignition energy of the potentially explosive atmosphere must not fall below 180 μJ (Explosion group IIA for gases). The specific electrical resistance is $> 10^3 \Omega \cdot \text{m}$ (Explosion group IIIB for combustible dusts). In the presence of conductive dusts of the explosion group IIIC, an individual assessment must be carried out by the user.

The following additional information should be noted:

The ignition temperature of $100^\circ\text{C} + 10\text{K} = 110^\circ\text{C}$ is set. Therefore the flow switch is classified in temperature class T5.

It must be ensured that the flow switch is installed in a metal pipe connected to the equipotential bonding. This can be done, for example, by installing the flow switch on metal piping systems with grounding. This must be ensured before initial operation.

During installation and before operation, it must be ensured that the mechanical process connection is technically tight.

Electrical connection:

The flow switch may only be connected to an intrinsically safe circuit.

Installation and placing into operation may only be carried out by qualified personnel.

In general, the use in heat pumps according to IEC 60335-2-40 with A2L refrigerants is consequently possible.

Kaufungen, 20. Sept. 2023

i.V. 

Dipl.- Ing. K. Ullloth

(CE- Koordinator und Produktsicherheitsbeauftragter, Ex- Schutz- Beauftragter)

(Manager CE- Coordination and Supervisor Product Safety and Explosion Protection)