



Stellungnahme zur Anwendbarkeit der RL 2014/34/EU (ATEX)

**Für Geräte und Komponenten
zur Verwendung in explosionsgefährdeten Bereichen**

**Statement for application
of directive 2014/34/EU**

**for Equipment and Components
intended for Use in Potentially Explosive Atmospheres**

Gegenstand: Gerät/Komponente Typ
Subject: Equipment/Component type

**Klappendurchflussmessgeräte der Baureihe KLA
in explosionsgeschützter Ausführung**
Flap-type flowmeters of the KLA series in explosion-proof
design

Hergestellt und zur Prüfung vorgelegt
Manufactured and submitted for examination

A. Kirchner & Tochter GmbH

Anschrift
Address

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Prüfgrundlage
Basis for examination

Anhang II der Richtlinie 2014/34/EU
Annex II of Directive 2014/34/EU

Verwendete Normen
Standard basis

EN 1127-1:2011, DIN EN ISO 80079-36:2016

Schutzartkennzeichen
Code for type of protection

Keine
None

Prüfergebnis:
Examination result

**Das Gerät fällt unter den weiter unten genannten
Bedingungen nicht in den Anwendungsbereich der
Richtlinie 2014/34/EU.**
The device does not fall within the scope of Directive 2014/34/EU
under the conditions set out below.

Prüfbericht-Nr:
Assessment number

557/Ex689.01/08



1. Object and type

Flap-type flow meters of the KLA series

- | | |
|--------------|------------------|
| - KLA Ex | - KLA-V4A Ex |
| - KLA-IK1 Ex | - KLA-V4A-IK1 Ex |
| - KLA-IK2 Ex | - KLA-V4A-IK2 Ex |
| - KLA-GS Ex | - KLA-V4A-GS Ex |

2. Description

The meters are designed to measure the flow of liquids on the flap-type flow measurement principle and are intended for installation in horizontal or vertical pipes. The installation must be carried out according to the manufacturer's instructions in the operating manual.

The KLA-IK2 Ex/KLA-V4A-IK2 Ex devices are equipped with two adjustable proximity switches that are used to monitor the measured value. The KLA-IK1 Ex/KLA-V4A-IK1 Ex devices are equipped with a cylindrical inductive limit switch or a proximity switch. The sensors are certified by EC-type examination certificates KEMA 02 ATEX 1090 X and PTB 99 ATEX 2219 X.

3. Technical data

Ambient temperature:	0 °C to 40 °C
Nominal voltage:	20 V DC
Max. operating pressure:	10 bar
Protection rating:	IP 54

4. Test result

The flap-type flow meters listed in section 1 do not fall within the scope of Directive 2014/34/EU because, when used as intended, they do not have their own potential ignition sources and do not cause any potential ignition sources in the potentially explosive atmosphere.

5. ATEX marking

Not required



6. Conditions for safe use or instructions for use

- **Electrostatic charge**
The operator must avoid electrostatic charging of the device according to the manufacturer's instructions.
- **Dust deposits**
Dust deposits must be avoided. The maximum layer thickness must not exceed 3 mm.
- **Electrical connection**
The flow meter can be equipped with a limit switch in order to implement a device display with a monitoring function (type KLA-IK Ex/KLA-V4A-IK Ex). The sensor must only be connected to intrinsically safe circuits. The following maximum values must be observed:

Device	Type	Ui (NAMUR)	Ii
Inductive sensor	BI-HS540-Y1	8 V DC	1.2mA/2.1mA
Inductive proximity sensor	SJ 3.5N	8 V DC	1mA/3mA
Inductive proximity sensor	SC 3.5-N0-BU	8 V DC	1mA/3mA

The manufacturer must ensure that the electrical data determined during the test are permanently set and complied with.

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