

Translation

(1) **EU-Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 18 ATEX 214370 X **issue:** 00

(4) for the product: Float switch type UNS1000-MS/T1-KM12-BN25-L2/2.1

(5) of the manufacturer: Barksdale GmbH

(6) Address: Dorn-Assenheimer Str. 27  
61203 Reichelsheim  
Germany

Order number: 8000480248

Date of issue: 2018-01-10

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential ATEX Assessment Report No. 18 203 214370.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**

**EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.

11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:



**II 1 G Ex ia IIB T6 Ga**

**II 1 D Ex ia IIIC T100°C Da**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

  
Roder

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 18 ATEX 214370 X issue 00**

(15) Description of product

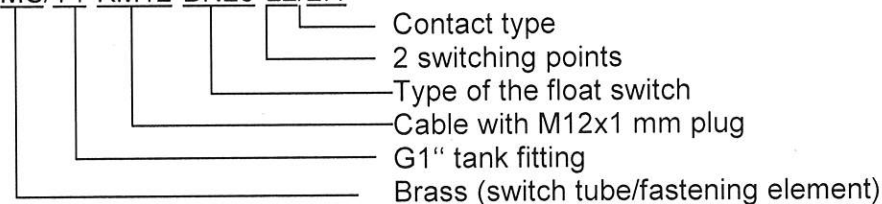
The float switch type UNS1000-MS/T1-KM12-BN25-L2/2.1 are used for intrinsically safe level measurement of liquid media in vessels.

In a tube construction made of brass, two reed switches are potted and built up for continuous level detection.

The intrinsically safe circuit is connected by means of a terminal box and the level measurement values are transferred to the intrinsically safe circuit by means of one float with built-in ring magnet that triggers reed switches.

Type code:

UNS1000-MS/T1-KM12-BN25-L2/2.1



Electrical Data:

Power supply

(Cable confection;

Reed switch L1: PIN 1+2

Reed switch L1: PIN 3+4)

In type of protection intrinsic safety Ex ia IIB/IIIC

Only for the connection to certified intrinsically safe circuits with following maximum values per circuit:

$$U_i = 14 \text{ V}$$

$$I_i = 25 \text{ mA}$$

$$P_i = 0.5 \text{ W}$$

Both circuits are internally connected to each other; the resulting values are given below:

$$U_i = 28 \text{ V}$$

$$I_i = 50 \text{ mA}$$

$$P_i = 1 \text{ W}$$

Effective internal capacitance

$C_i$  Capacitance of the permanently connected cable

Effective internal inductance

$L_i$  Inductance of the permanently connected cable

For the permanently connected cable the following applies:

$C_{c,wire/wire}$	25	pF/m
$C_{c,wire/screen}$	141	pF/m
$L_c$	0.57	$\mu\text{H/m}$

Thermal Data:

Ambient temperature range:

$$-40 \text{ }^\circ\text{C} \leq T_a \leq +75 \text{ }^\circ\text{C}$$

**Schedule to EU-Type Examination Certificate No. TÜV 18 ATEX 214370 X issue 00**

- (16) Drawings and documents are listed in the ATEX Assessment Report No. 18 203 214370
- (17) Specific Conditions for Use
1. Metallic process connection parts have to be included in the local potential equalization.
  2. The float switch type UNS1000-MS/T1-KM12-BN25-L2/2.1 has to be installed and used in such a way, that electrostatic charging from operation, maintenance and cleaning is excluded.
- (18) Essential Health and Safety Requirements  
No additional ones

- End of Certificate -