

**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 20 ATEX 248479 X **issue:** 00

(4) for the product: Flow switch type BFS-10-N-a-b-c-d-e-f

(5) of the manufacturer: **Barksdale GmbH**

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

Order number: 8003007818

Date of issue: 2021-02-05

(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. 20 203 248479.

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

**EN IEC 60079-0:2018**

**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 or  
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 deputy of the head of the notified body



Heinen

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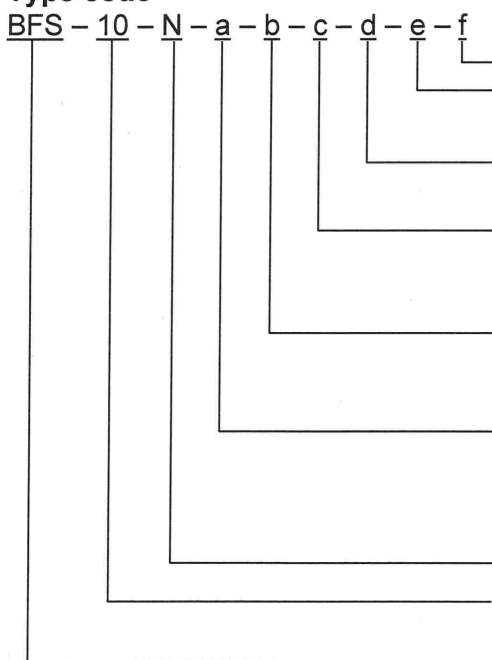
(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 20 ATEX 248479 X issue 00**

(15) **Description of product**

The flow switch type BFS-10-N-a-b-c-d-e-f is used for measuring and monitoring of liquid and gaseous media (air) and is operating according to a modified float measuring principle. The float is suspended by a spring in a cylindrical slotted nozzle. The flowing medium moves the float in the direction of flow.

**Type code**



Range  
Option:  
Exi: Hazardous area; Intrinsic safety  
Electrical connection:  
ST: Cube plug DIN EN 175301-803-A  
Switch function (without flow):  
NO: Normally open (SPST)  
WE: Change over (SPDT)  
Material:  
MS: Brass  
SS: Stainless Steel  
Process connection:  
G1/4" female DIN ISO 228-1  
G1/2" female DIN ISO 228-1  
G1" female DIN ISO 228-1  
Indication: Without optical indication  
Type: For water or aqueous liquids or air, without enlarged measurement range  
Barksdale Flow Switch

**Electrical data**

Power supply  
(Plug)

In type of protection intrinsic safety Ex ia IIB/IIIC  
Only for the connection to certified intrinsically safe circuits  
Maximum values:

$U_i = 28 \text{ V}$   
 $I_i = 110 \text{ mA}$   
 $P_i = 0.84 \text{ W}$

Effective internal capacitance  
Effective internal inductance

$C_i$  = Capacitance of the connected cable  
 $L_i$  = Inductance of the connected cable

For the connected cable the following applies:

$C_{c,wire/wire} + C_{c,wire/screen} \leq 200 \text{ pF/m}$   
 $L_c \leq 1 \text{ }\mu\text{H/m}$

**Thermal data**

Permissible ambient temperature range

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

(16) Drawings and documents are listed in the ATEX Assessment Report No. 20 203 248479

(17) **Specific Conditions for Use**

For the use in areas that require EPL Da the flow switch type BFS-10-N-a-b-c-d-e-f must be protected from strong charge generation mechanisms.

(18) **Essential Health and Safety Requirements**

No additional ones

- End of Certificate -