



## 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 248753 X **Issue:** 00  
(4) for the product: Pressure switch type 8xxx-\*, D1T-xxxxxSS-\*, D2T-xxxxxSS-\*  
(5) of the manufacturer: **Barksdale GmbH**  
(6) Address: Dorn-Assenheimer Str. 27  
61203 Reichelsheim  
Germany

Order number: 8003007818

Date of issue: 2022-01-26

- (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 248753.

- (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:

 **See "Marking" for details**

TÜV NORD CERT GmbH, Am TÜV 1, 45307 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

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(13) **SCHEDULE**


(14) **EU-Type Examination Certificate No. TÜV 20 ATEX 248753 X**

**Issue 00**

(15) **Description of product:**

The pressure switches 8xxx-**PL1**-x-EXI, 8xxx-**PL4**-x-xx-EXI, 8xxx-**PL2**-x-xx-EXI, 8xxx-**PL3**-x-xx-EXI, 8xxx-**PL5**-x-xx-EXI, 8xxx-**PL6**-x-xx-EXI, 8xxx-**CA1**-x-xx-EXI, 8xxx-**CA2**-x-xx-EXI, 8xxx-**CA3**-x-xx-EXI, 8xxx-**CD1**-x-xx-EXI, 8xxx-xxx-x-xx-**PC**-EXI, D1T-xxxxxSS-xxx-EXI, D1T-xxxxxSS-**ST1**-EXI, D2T-xxxxxSS-xxx-EXI and D2T-xxxxxSS-**ST3**-EXI, are used for monitoring and controlling processes with maximum or minimum pressures. When minimum or maximum pressures are reached, an electrical signal is triggered by a microswitch.

**Marking:**

	<b>II 1 G Ex ia IIC T6 Ga or II 1 D Ex ia IIIC T<sub>200</sub>100°C Da</b>	8xxx- <b>PL2</b> -x-xx-EXI, 8xxx- <b>PL3</b> -x-xx-EXI, 8xxx- <b>PL5</b> -x-xx-EXI, 8xxx- <b>PL6</b> -x-xx-EXI, 8xxx- <b>CA1</b> -x-xx-EXI, 8xxx- <b>CA2</b> -x-xx-EXI, 8xxx- <b>CA3</b> -x-xx-EXI, 8xxx- <b>CD1</b> -x-xx-EXI, D1T-xxxxxSS-xxx-EXI und D2T-xxxxxSS-xxx-EXI
	<b>II 1 G Ex ia IIB T6 Ga or II 1 D Ex ia IIIC T<sub>200</sub>100°C Da</b>	8xxx- <b>PL1</b> -x-EXI, 8xxx- <b>PL4</b> -x-xx-EXI, 8xxx-xxx-x-xx- <b>PC</b> -EXI, D1T-xxxxxSS- <b>ST1</b> -EXI and D2T-xxxxxSS- <b>ST3</b> -EXI

**Type code:**

8 **x x x** - **xxx** - **x** - **xx** - **EXI**

**Option**

- EXI** ATEX (Ex ia)
- GL** Germanischer Lloyd
- UL** Underwriter's Laboratories
- D** with damping bore
- VA** housing made of 1.4305
- LH** Low Hysteresis
- HP** Test pressure 200 Bar
- HD** Rotary knob with scale
- K** Short housing
- ES** Adjustment screw with lock
- PC** Protective Cap, Vinyl (**IIB**)

**Sealing material**

- B** NBR
- V** FPM / FKM Flour rubber
- N** CR Chloroprene rubber
- E** EPDM
- S** Silicone

**Electrical connections**

- PL1** Cube connector DIN EN 175301-803 A (former DIN 43650) (**IIB**)
- PL2** M12x1 mm connector (4-pins)
- PL3** M12x1 mm connector (4-pins), 90° with 2m cable
- PL4** Bayonet DIN 72585 (**IIB**)

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- PL5** M12x1 mm connector (5-polig)
- PL6** VG connector
- CA1** IP68 cable gland with x m silicone cable 4x0,75
- CA2** IP68 cable gland with x m PVC cable 4x0,75
- CA3** IP68 cable gland with x m Neoprene cable 4x0,75
- CD1** 1/2" Conduit connector

**Micro switch contacts**

- 1** Micro switch with Silver contacts
- 2** Micro switch with Gold contacts

**Pressure ranges**

- 1** 0,6 - 6,0 bar
- 2** 3 - 20 bar
- 3** 4 - 45 bar
- 4** 5 - 180 bar
- 5** 50 - 350 bar
- 6** 80 - 600 bar
- A** 8 - 85 psi
- B** 45 - 250 psi
- C** 60 - 650 psi
- D** 75 - 2600 psi
- E** 750 - 5000 psi
- F** 1200 - 8700 psi

**Process connection**

- 0** Special connection
- 1** Flange 40 x 40 mm
- 2** G 1/4" female, 40 x 40 mm
- 3** G 1/4" male, 40 x 40 mm
- 4** G 1/4" female, 90° side connection
- A** 1/4" NPT female, 40 x 40 mm
- B** 1/4" NPT male, 40 x 40 mm
- C** 1/8" NPT female, 40 x 40 mm
- D** 1/4" NPT female, 90° side connection
- E** 7/16 SAE 4-20 UNF O-Ring
- F** 9/16 SAE 6-18 UNF O-Ring

<b>D</b>	<b>x</b>	<b>T</b>	<b>xx</b>	<b>xxx</b>	<b>SS</b>	-	<b>xxx</b>	-	<b>xxx</b>	-	<b>EXI</b>
											<b>Option</b>
											<b>EXI</b> ATEX (Ex ia)
											<b>GL</b> Germanischer Lloyd (Marine approval)
											<b>UL</b> Underwriter's Laboratories
											<b>P2</b> 1/2" NPT IG VA-Membrane
											<b>FE</b> Epoxy resin paint
											<b>Electrical connections</b>
											<b>ST1</b> cube plug DIN EN 175301-803 A(former DIN 43650)(IIB)
											<b>ST3</b> Connector Amphenol (Tuchel) according to EN 43651 E 6-pin ( <b>only for 2 switching points version</b> ) (IIB)
											( ) Wago terminal or screw connection internal
											<b>Material of the medium-contacting parts</b>
											<b>SS</b> VA-Steel, 17.7 PH / SS304
											<b>Pressure ranges</b>
											<b>2</b> 0,005...0,11 bar
											<b>3</b> 0,012...0,20 bar
											<b>18</b> 0,050...1,20 bar
											<b>80</b> 0,300...5,50 bar
											<b>150</b> 0,500...10,3 bar
											<b>3</b> Vacuum -0,006...-0,20 bar
											<b>18</b> Vacuum -0,040...-1,00 bar
											<b>Micro switch contact</b>
											<b>B</b> B-Micro switch (see datasheet for microswitch data)
											<b>C</b> C-Micro switch (see datasheet for microswitch data)
											<b>H</b> H-Micro switch (see datasheet for microswitch data)
											<b>GH</b> GH-Micro switch (see datasheet for microswitch data)
											<b>J</b> J-Micro switch (see datasheet for microswitch data)
											<b>M</b> M-Micro switch (see datasheet for microswitch data)
											<b>GM</b> GM-Micro switch (see datasheet for microswitch data)
											<b>S</b> S-Micro switch (see datasheet for microswitch data)
											<b>Housing type</b>
											<b>T</b> Aluminum enclosure, old and new form
											<b>Number of switching points</b>
											<b>1</b> 1 switch point
											<b>2</b> 2 switch points

**Electrical data**

Power supply

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

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

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

$$P_i = 0.84 \text{ W}$$

Effective internal capacitance

$C_i$  is negligibly small

Effective internal inductance

$L_i$  is negligibly small

**Thermal data:**

Permissible ambient temperature range during operation:  $-40 \text{ °C} \leq T_a \leq +75 \text{ °C}$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 20 203 248753

(17) **Specific Conditions for Use:**

1. For IIC Ga uses the pressure switches have to be installed and used in such a way, that electrostatic charging from operation, maintenance and cleaning is excluded.  
For IIIC Da uses process-related electrostatic charges, e.g. due to passing media have to be excluded for pressure switches containing non-metallic parts.
2. Metallic parts have to be included in the local potential equalization.
3. The intrinsically safe supply is connected to the ground potential for safety reasons. Potential equalization has to exist in the entire area of the installation of the intrinsically safe circuit.
4. For the uses in areas that require EPL Ga the devices have to be installed in such a way, that ignition hazard due to impact or friction can be excluded.

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

No additional ones.

- End of EU-Type Examination Certificate -