

**UNITED KINGDOM CONFORMITY ASSESSMENT  
UK TYPE EXAMINATION CERTIFICATE**

**Product Intended for use in Potentially Explosive Atmospheres  
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

Type Examination Certificate Number: **ExVeritas 22UKEX1191X** Issue: **2**

Product: Load cell CN3, SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB, PC3  
PC6, PC7, PCB, Q50, RC1, RC3, SB14, SB4, SB6, SB8, UB1, UB6, UXT, VT1 PC4, PC2  
and PC12

Manufacturer: Flintec Transducers (Pvt) Ltd

Address: PO Box 24, KEPZ Phase 1, Spur Rd 2, Katunayake 11450, Sri Lanka

This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 Schedule 1 of the Regulations.

Compliance with the applicable 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 section 16 of the schedule to this certificate.

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the equipment shall include the following:



II 1GD

Ex ia IIC T4 Ga (Ta = -40 °C to +60 °C)

Ex ia IIIC T<sub>200</sub>100°C Da (Ta = -40 °C to +60 °C)



**No. 8613**

On behalf of ExVeritas



S Clarke CEng MSc FIET  
Managing Director

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The status of this certificate can be verified at [www.exveritas.com](http://www.exveritas.com)

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## Schedule

### 13 Description of Product

The load cells type CN3 comprise the sensing gages, a board with the input connector in a housing for permanent installation. The enclosure comprises parts made in stainless steel.

The load cells type SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB and PC3 comprise the sensing gages, a board with the input connector in a housing for permanent installation. The enclosure comprises parts made in stainless steel or aluminium, depending on the model, some electronic parts are encapsulated, with some parts of the enclosure being formed by these encapsulated parts.

The load cells type PC6, PC7, PCB, Q50, RC1, RC3, SB14, SB4, SB6, SB8, UB1, UB6, UXT, VT1 PC4, PC2 and PC12 comprise the sensing gages, a board with the input connector in a housing for permanent installation. The enclosure comprises parts made in stainless steel, some internal electronic parts are encapsulated.

Limiting parameters:

$U_i = 30 \text{ V}$

$I_i = 300 \text{ mA}$

$P_i = 1.6 \text{ W}$  (all models excluding BK2 and VT1), 1.3 W (BK2 only), 1.5 W (VT1, only)

$C_i = 0 \text{ }\mu\text{F}$

$L_i = 0 \text{ mH}$

Integral cable:

- maximum mutual capacitance per meter = 150 pF/m
- maximum mutual inductance per meter = 1  $\mu\text{H/m}$

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3569/A/1	20/04/2022	0	Initial issue of the Prime Certificate
R3569/A/2, R3569/A/3	13/07/2022	1	Inclusion of models SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB, PC3, PC6, PC7, PCB, Q50, SB14, SB4, SB6, SB8, UB1, UB6, UXT, VT1 PC4, PC2 and PC12.
R4140/A/1	13/09/2022	2	Inclusion of models RC1 and RC3

#### 14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Ex Schedule drawing – CN3	0102990	03	2022-04-08
Ex Category Marking Label	0108557	03	2022/06/08
Permitted Gage type for Ex products	0108772	02	2022/03/10
Ex Schedule drawing- SB5	0103069	01	2022/04/29
Ex Schedule drawing- BK2	0103072	01	2022/04/29
Ex Schedule drawing-PC1	0104053	01	2022/04/29
Ex Schedule drawing- PC22	0102988	01	2022/04/29
Ex Schedule drawing- PC30	0103070	01	2022/04/29
Ex Schedule drawing-PC42	0103648	01	2021/07/15
Ex Schedule drawing-PC46	0103649	01	2022/04/29
Ex Schedule drawing - PC60	0103269	02	2022/06/08
Ex Schedule drawing- SB9	0103233	01	2022/04/29

Certificate: **ExVeritas 22UKEX1191X**

Issue **2**

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Title:	Drawing No.:	Rev. Level:	Date:
Ex Schedule drawing- SLB	0103154	01	2022/04/29
Ex Schedule drawing- ULB	0103163	01	2022/04/29
Ex Schedule drawing- PC3	0103187	02	2022/06/08
Ex Schedule drawing- PC6	0103153	01	2022/04/29
Ex Schedule drawing- PC7	0103173	01	2022/04/29
Ex Schedule drawing- PCB	0103011	01	2022/04/29
Ex Schedule drawing- Q50	0103181	01	2022/04/29
Ex Schedule drawing- SB14	0102641	01	2022/04/29
Ex Schedule drawing- SB4	0103031	01	2022/04/29
Ex Schedule drawing- SB6	0103129	01	2022/04/29
Ex Schedule drawing- SB8	0103130	01	2022/04/29
Ex Schedule drawing- UB1	0103157	01	2022/04/29
Ex Schedule drawing- UB6	0103161	01	2022/04/29
Ex Schedule drawing- UXT	0103191	01	2022/04/29
Ex Schedule drawing- VT1	0103225	01	2022/04/29
Schedule drawing- CN3	0102990	03	2022/04/08
Ex Schedule drawing- PC4	0103650	01	2022/04/29
Ex Schedule drawing- PC2	0103073	01	2022/04/29
Ex Schedule drawing- PC12	0103074	01	2022/04/29
EX Product Label	0108554	02	2022/04/08
Ex Schedule drawing- RC1 (*)	0103091	02	2022/08/06
Ex Schedule drawing- RC3 (*)	0103086	02	2022/08/06

Note: An \* is included before the title of documents that are new or revised.

### 15 Specific Conditions of Use

#### 15.1 Special Conditions for Safe Use

- The models PC22, PC42, PC46 and PC60 provide an enclosure made in aluminium, when the equipment is used on areas requiring EPL Ga, the equipment must be protected against impacts or friction that could cause mechanically generated sparks.
- The load cells enclosures include non-metallic parts that can accumulate electrostatic charges that in rare extreme condition can represent an ignition risk. Refer to the manufacturer safety instructions for details about how to mitigate this ignition risk.

#### 15.2 Routine tests

- None

### 16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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