

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

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

5 Type Examination Certificate Number: **ExVeritas 22UKEX1191X** Issue: **3**

6 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

7 Manufacturer: Flintec Transducers (Pvt) Ltd

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

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

10 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.

11 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.

12 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.

11 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.

12 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 T₂₀₀ 100°C Da (Ta = -40 °C to +60 °C)

On behalf of ExVeritas



No. 8613



S Clarke CEng MSc FIET
Managing Director

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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:

$U_i = 30 \text{ V}$

$I_i = 350 \text{ mA}$

$P_i = 1.6 \text{ W}$ (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
R5448/A/1	08/11/2024	3	Change to increase input current from barrier. Introduction of non safety related components Update to include different enclosures dimensions Change to Cable gland encapsulation which is not relied upon for intrinsic safety Removal of some drawings which have been superseded. Update to special conditions of safe use.

14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
*Ex Category Marking Label	0108557	07	2024/10/18
Permitted Gage type for Ex products	0108772	02	2022/03/10
*Ex Schedule drawing- SB5	0103069	02	2024/07/01
*Ex Schedule drawing- BK2	0103072	02	2024/07/01
*Ex Schedule drawing- PC22	0102988	02	2024/07/01
*Ex Schedule drawing- PC30	0103070	02	2024/07/01
*Ex Schedule drawing-PC42	0103648	02	2024/07/01
*Ex Schedule drawing-PC46	0103649	02	2024/07/01
*Ex Schedule drawing - PC60	0103269	03	2024/07/01
*Ex Schedule drawing- SB9	0103233	02	2024/07/01
*Ex Schedule drawing- ULB	0103163	02	2024/07/01

Certificate: **ExVeritas 22UKEX1191X**

Issue 3

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Title:	Drawing No.:	Rev. Level:	Date:
*Ex Schedule drawing- PC3	0103187	03	2024/07/01
*Ex Schedule drawing- PC7	0103173	02	2024/07/01
*Ex Schedule drawing- Q50	0103181	02	2024/07/01
*Ex Schedule drawing- SB6	0103129	02	2024/07/01
*Ex Schedule drawing- UB1	0103157	02	2024/07/01
*Ex Schedule drawing- UB6	0103161	02	2024/07/01
*Ex Schedule drawing- UXT	0103191	02	2024/07/01
*Ex Schedule drawing- VT1	0103225	02	2024/07/01
*Ex Schedule drawing- CN3	0102990	04	2024/07/01
*Ex Schedule drawing- PC4	0103650	02	2024/07/01
*Ex Schedule drawing- PC2	0103073	02	2024/07/01
*Ex Schedule drawing- PC12	0103074	02	2024/07/01
*Ex Schedule drawing- RC1	0103091	03	2024/07/01
Ex ia and Ex ec tb product label	0121929	03	2024/07/08
*Label positions of Ex ec/tb and Ex ia products	0122585	01	2024/05/28
*Flintec load cells Ex ia and Ex ec/tb safety-critical info for user manual	0123281	03	2024/10/18
*Ex ia/ec/tb Schedule drawing- SLB	0121859	03	2024/09/24
*Ex ia/ec/tb Schedule drawing- PC1	0122253	03	2024/10/07
*Ex ia/ec/tb Schedule drawing- PC6	0122162	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- PCB	0122154	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- RC3	0122159	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- SB14	0121858	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- SB4	0122155	04	2024/09/24
*Ex ia/ec/tb Schedule drawing- SB8	0121860	04	2024/09/24
*Cable and cable gland list for ia ec tb	0121916	04	2024/10/07

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.
- Models SB5, BK2, PC1, PC22, PC30, PC42, PC46, PC60, SB9, SLB, ULB and PC3 have enclosures which present a potential electrostatic charging hazard in the hazardous area. A suitable method must be used to minimize this risk, such as:
 - Control of environmental humidity to minimize the generation of static electricity.
 - Protection from direct airflow causing a charge transfer.
 - Touch with an insulating object.
 - Means to continuously drain off electrostatic charges
- Ensure that exposed conductive parts of load cells are connected to the equipotential bonding system in accordance with IEC 60079-14
- Load Cells with exposed encapsulation must not be exposed to direct sunlight or must be protected from direct sunlight when installed

15.2 Routine tests

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Issue 3

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Schedule

- 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.