1 # UK-TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination Certificate Number: **BAS22UKEX0266 Issue 1**

4 Product: **Load Cell KXXD-X with variants**

5 Manufacturer: **Vishay Nobel AB**

6 Address: **Box 423, SE-691 27 Karlskoga, Sweden**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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.

8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the change of entity to SGS United Kingdom Limited. Such certificates remain valid with their original number.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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 of Use specified in the schedule to this certificate.

11 This UK-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 product shall include the following:

Ex **II 1 GD Ex ia IIC T4 Ga Ex ia IIIC T_{500} 84°C Da (-40°C ≤ Ta ≤ 60°C)**

Ex **I M1 Ex ia I Ma (-40°C ≤ Ta ≤ 60°C)**

SGS Baseefa Customer Reference No. **2054** Project File No. **25/0464**

SGS United Kingdom Ltd.
(Incorporating Baseefa Ltd.)
Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600
e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa
Registered in England No. 01193985.
Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

UKAS PRODUCT CERTIFICATION
0191

Authorised Signatory

13 # Schedule

14 # Certificate Number BAS22UKEX0266 Issue 1

15 Description of Product

The Loadcells Type KXXD-X are designed to measure force. Each loadcell comprises a printed circuit board, four dual element strain gauges and two modulus gauges all housed in a stainless steel enclosure. External connections are made via an integral four core cable.

This certificate covers types KOSD-XXX-Z, KOSD-X, KOSD-New Style, KISD-X, KIMD-X and KXXD-DX, where X represents type and load rating and the -DX suffix represents a double-bridge type.

The apparatus comprises a stainless steel body, in which the strain and modulus gauges and the printed circuit board (coated with silicon rubber compound or varnish) are mounted. Electrical connections are made via a glanded integral cable, the termination of which, on the internal printed circuit board is encapsulated.

The loadcells are adequately protected against dust ingress; the enclosures offering a degree of protection of not less than IP6X.

Input Parameters

U_i	=	30V	C_i	=	See table below
I_i	=	1A	L_i	=	See table below
P_i	=	1.2W	L_i/R_i	=	See table below

Cable length	Capacitance, C_i	Inductance, L_i	L_i / R_i Ratio
< 10m	3.5nF	<10µH	30µH/Ω
>10m to 17m	5nF	<17µH	30µH/Ω
>17m to 25m	8nF	Use L_i/R_i ratio	30µH/Ω
>25m to 50m	15nF	Use L_i/R_i ratio	30µH/Ω
>50m to 100m	30nF	Use L_i/R_i ratio	30µH/Ω

16 Report Number

None.

17 Specific Conditions of Use

None

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
13	Protection against other hazards (LVD type requirements, etc.)	Standards require manufacturer's declaration, supplied.
14	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions
21(1)	External effects	The Purchaser should make the manufacturer aware of such issues.
21(2)	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
300138	1 of 1	3	2022-10-05	KIMD Type Double Bridge Connector or Cable
300139	1 of 1	3	2022-10-05	KOSD Type Double Bridge Connector or Cable
300332	1 of 1	5	2022-10-05	KOSD-New Style
600610	1 of 1	6	2022-10-05	ATEX Label KOSD-X
600631	1 of 1	6	2022-10-05	ATEX Label KISD-X
600632	1 of 1	6	2022-10-05	ATEX Label KIMD-X
600633	1 of 1	6	2022-10-05	ATEX Label KOSD-XXX-Z

Refer to Baseefa02ATEX0072 Issue 5 for the full list of applicable drawings.

20 Certificate History

Certificate No.	Date	Comments
BAS22UKEX0266 Issue 0	12 April 2023	Prime Certificate Report Number: GB/BAS/ExTR23.0022/00 Project Number: 22/0544 Original issue of the certificate
BAS22UKEX0266 Issue 1	10 September 2025	This issue of the certificate corrects input parameters. Project Number No. 25/0464.
For drawings applicable to each issue, see original of that issue.		