IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx BAS 20.0002X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2021-02-15) Issue 0 (2020-01-28)
Date of Issue:	2021-03-09		
Applicant:	**Logitech Electronics Ltd** Lane End Church Aston Newport Shropshire TF10 9JJ **United Kingdom**		
Equipment:	**MPEX range of Magnetic Pickups**		
Optional accessory:			
Type of Protection:	**Intrinsic Safety**		
Marking:	Ex ia IIC T6…T3 Ga		

Approved for issue on behalf of the IECEx Certification Body: **Mr R S Sinclair**

Position: **Technical Manager**

Signature: (for printed version)

D BREARLEY
Certification Manager

Date: 9.3.2021

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 20.0002X** Page 2 of 4

Date of issue: 2021-03-09 Issue No: 2

Manufacturer: **Logitech Electronics Ltd**
Lane End
Church Aston
Newport
Shropshire TF10 9JJ
United Kingdom

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR20.0001/00 GB/BAS/ExTR21.0037/00

Quality Assessment Report:

GB/BAS/QAR21.0002/00

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The MPEX range of magnetic pickups consists of a wire coil with a ferrous pole piece and a PCB assembly. The equipment is housed in a metal enclosure and the PCB is fully encapsulated.

The equipment has a range of different coil options and two different PCB options depending on the size and shape of the enclosure. A number of variants of the enclosure are available.

For additional information please see Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. This equipment has an electrically isolated pole piece and where this is exposed it has capacitance up to 17pF. The user must determine the suitability of the equipment for the specific application. Precaution must be taken to avoid the accumulation of electrostatic charge on this part.
2. Where the product enclosure is made from aluminium, and used in Zone 0, the user must ensure that the equipment is protected from impact or abrasion that could cause incendive sparks.
3. Where the equipment body is not labelled, the label supplied with this equipment must be affixed immediately to the electrical cable.
4. Where the label is affixed to the cable, the user must take precautions to avoid the accumulation of electrostatic charge on this part.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 2.1

To permit minor drawing changes not affecting certification.

ExTR: **GB/BAS/ExTR21.0037/00**	File Reference: **21/0137**

Annex:

IECEx BAS 20.0002 Annex.pdf

SGS Baseefa Limited
Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United Kingdom

The equipment utilises the intrinsic safety concept of protection and has input parameters:

			With no attached cable			With up to 50m of cable		
Ui	=	30V	Ci	=	0	Ci	=	22nF
Ii	=	160mA	Li	=	0	Li	=	34µH
Pi	=	0.75W						

The MPEX magnetic pickups generate an internal voltage depending on the speed of the target object passing the pole piece. The maximum voltage output is internally limited by safety components to be no greater than 4.97V

The ambient temperature ranges depend on temperature class and series as follows:

MPEXS Series

T6	-40°C ≤ Ta ≤ +49°C
T5	-40°C ≤ Ta ≤ +64°C
T4	-40°C ≤ Ta ≤ +99°C
T3	-40°C ≤ Ta ≤ +120°C

MPEXLS Series

T6	-20°C ≤ Ta ≤ +49°C
T5	-20°C ≤ Ta ≤ +64°C
T4	-20°C ≤ Ta ≤ +99°C
T3	-20°C ≤ Ta ≤ +120°C

MPEX Series

T6	-40°C ≤ Ta ≤ +57°C
T5	-40°C ≤ Ta ≤ +72°C
T4	-40°C ≤ Ta ≤ +107°C
T3	-40°C ≤ Ta ≤ +120°C

MPEXL Series

T6	-20°C ≤ Ta ≤ +57°C
T5	-20°C ≤ Ta ≤ +72°C
T4	-20°C ≤ Ta ≤ +107°C
T3	-20°C ≤ Ta ≤ +120°C