

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 SIR 13.0154X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	lssue 2 (2022-03-30) Issue 1 (2021-10-19)
Date of Issue:	2024-01-12		Issue 0 (2014-04-16)
Applicant:	Positek a Division of Variohm Eurosensor Hermes House Andoversford Link Andoversford Cheltenham GL54 4LB United Kingdom	Ltd	
Equipment:	Series EX07 Position Sensor.		
Optional accessory:			
Type of Protection:	Intrinsically Safe		
Marking:	Model E		
	Ex ia IIC T4 Ga Ex ia IIIC T135°C Da Ta = -40°C to +80°C		
	Model X		
	Ex ia IIC T4 Ga Ta = -40°C to +80°C		
	Model M		
	Ex ia IIC T4 Ga Ex ia IIIC T135°C Da Ex ia I Ma Ta = -40°C to +80°C		
Approved for issue o Certification Body:	n behalf of the IECEx	Michelle Halliwell	
Position:		Director Operations, UK & Industrial Europe	
Signature: (for printed version)			
Date: (for printed version)			
2. This certificate is not	schedule may only be reproduced in full. t transferable and remains the property of the issuing boo enticity of this certificate may be verified by visiting www.	ly. iecex.com or use of this QR Code.	
Certificate issued	l by:		
CSA Group Te	-		AP

CSA Group Testing UK Ltd Unit 6, Hawarden Industrial Park Hawarden, Deeside CH5 3US United Kingdom

GROUP



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Date of issue:	2024-01-12	Issue No: 3
Manufacturer:	Positek a Division of Variohm Eurosensor Hermes House Andoversford Link Andoversford Cheltenham GL54 4LB United Kingdom	Ltd
Manufacturing locations:	Positek a Division of Variohm Eurosensor Ltd Hermes House Andoversford Link Andoversford Cheltenham GL54 4LB United Kingdom	
IEC Standard list bel found to comply with	ow and that the manufacturer's quality system,	tive of production, was assessed and tested and found to comply with the relating to the Ex products covered by this certificate, was assessed and ertificate is granted subject to the conditions as set out in IECEx Scheme
STANDARDS : The equipment and a to comply with the fo		chedule of this certificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment -	General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment	protection by intrinsic safety "i"
		ance with safety and performance requirements cluded in the Standards listed above.
TEST & ASSESSME A sample(s) of the ed	ENT REPORTS: quipment listed has successfully met the exami	nation and test requirements as recorded in:

Test Reports:

GB/CSAE/ExTR22.0080/00 GB/SIR/ExTR24.0008/00 GB/SIR/ExTR14.0091/00

GB/SIR/ExTR21.0106/00

Quality Assessment Report:

GB/SIR/QAR10.0029/08



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Series EX07 Position Sensors comprises of a range of Rotary and Linear inductive position sensors. Each sensor incorporates the Positek EX07 Electronics System, which is used to excite the coils.

The electronic components are mounted on a printed circuit board and the sensing coils are either configured on a printed wiring board or wound onto a former.

The apparatus utilises an enclosure into which the electrical components are located. The enclosure construction varies as follows:

Model series X and E, metal or plastic and metal enclosure of at least ingress protection level IP20 for Groups II & III; (EPL Ga and Da) Model series M, metal enclosure of at least ingress protection level IP54 for Group I; (EPL Ma).

The apparatus is to be powered via a suitably-certified isolator.

Refer to the Annexe for the entity paremeters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The apparatus does not meet the 500V r.m.s dielectric strength test between circuit and frame, in accordance with clause 6.3.13 of IEC 60079-11:2011. This must be taken into consideration on 1. installation.
- When using a Sensor that has an integral cable in a dust application, the free end of the cable shall be 2. appropriately terminated for the zone of use.
- 3. Maximum permitted cable parameters:
 - Capacitance ≤200 pF/m.
 - Inductance ≤0.81 µH/m.
 - Length ≤1000 m.

4.

Under certain extreme circumstances, the non-metallic and isolated metal parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. This is particularly important if the equipment is installed in a zone 0 location. In addition, the equipment shall only be cleaned with a damp cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) This issue, Issue 3, recognises the following changes; refer to the certificate annex to view a comprehensive history:

- Change of Applicants additional manufacturing location name and address as follows: From: Positek a Division of Variohm Eurosensor Ltd, L6 Andoversford link, Andoversford Industrial estate, Andoversford, Cheltenham, Gloucester, GL54 4LB
 - To: Positek a Division of Variohm Eurosensor Ltd, Hermes House, Andoversford Link, Andoversford, Cheltenham, GL54 4LB

Annex:

IECEx SIR 13.0154X Issue 3 Annexe.pdf

Annexe to: IECEx SIR 13.0154X Issue 3

Applicant: Positek a division of Variohm Eurosensor Ltd.

Apparatus: Series EX07 Position Sensor



The EX07 has the following entity parameters:

Parameter	Value
Ui	11.4 V
li	0.2 A
Pi	0.51 W
Ci without integral cable	1.16 uF
Ci with integral cable (Max. length)	1.36 uF (1000 m)
Li without integral cable	50 uH
Li with integral cable (Max. length)	860 uH (1000 m)

Full certificate change history

Issue 1 – this Issue introduced the following changes:

1. The certificate holder and manufacturer's name was changed:

From	То
Positek Limited	Positek a division of Variohm Eurosensor Ltd.

2. The body responsible for quality (ATEX only) was changed from 0518 to 2813 as shown on the label drawings.

Issue 2 – this Issue introduced the following changes:

- 1. Update nameplate drawing LB24-10 to add UKCA certificate information
- 2. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Ed. 6 was replaced by IEC 60079-0:2017 Ed. 7.

Issue 3 – this Issue introduced the following change:

1. Change of Applicants additional manufacturing location name and address as follows:

From	То
Positek a Division of Variohm Eurosensor Ltd,	Positek a Division of Variohm Eurosensor Ltd
L6 Andoversford link	Hermes House
Andoversford Industrial estate	Andoversford Link
Andoversford, Cheltenham	Andoversford
Gloucester, GL54 4LB	Cheltenham, GL54 4LB