

	INTERNATIONAL ELEC IEC Certification Syste for rules and details of th	CTROTECHNICAL COMMISSION em for Explosive Atmospheres ne IECEx Scheme visit www.iecex.com	N
Certificate No.:	IECEx BVS 08.0022X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 2	Issue 1 (2011-05-24) Issue 0 (2008-06-17)
Date of Issue:	2017-11-02		
Applicant:	Pepperl+Fuchs GmbH Lilienthalstrasse 200 68307 Mannheim Germany		
Equipment:	Keyboard type EXTA*-*-*-X		
Optional accessory	:		
Type of Protection:	Equipment protection by intrinsic saf	ety "i"	
Marking:	Ex ib IIC T4 Gb Ex ib IIIB T135°C Db		
Annroved for issue	on behalf of the IECEy	Dr Franz Fickhoff	
Certification Body:			
Position:		Deputy Head of Certification Body	
Signature: (for printed version)			
Date:			
 This certificate a This certificate i The Status and 	and schedule may only be reproduced in full s not transferable and remains the property authenticity of this certificate may be verifie	l. of the issuing body. d by visiting www.iecex.com or use of this QR	Code.
Certificate issue	d by:		
DEKRA EXAM Dinnendahlstra 44809 Bochum Germany	GmbH asse 9		On the safe side.



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Date of issue:	2017-11-02	Issue No: 2			
Manufacturer:	Pepperl+Fuchs GmbH Lilienthalstrasse 200 68307 Mannheim Germany				
Additional manufacturing locations:	Pepperl+Fuchs GmbH Bussmatten 10-12 77815 Bühl, Baden Germany				
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 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements				
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by int	rinsic safety "i"			
	This Certificate does not indicate compliance with safety a other than those expressly included in the Stand	nd performance requirements dards listed above.			
TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:					
Test Report: DE/BVS/ExTR07.003	34/02				
Quality Assessment I	Reports:				

DE/PTB/QAR06.0008/08

US/UL/QAR07.0005/12



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description for issues 0 and 1

The keyboard is used for input of data and is designed for mounting in an enclosure. The keyboard consists of pc boards, which are fixed behind a light metal plate and protected by a metal cover; the light metal plate has openings for the operation of switching elements and a plastic foil at the front side. In some variations additionally a track ball or a touch pad or a joystick is fastened.

Туре

See Annex

Parameters

For keyboard circuits (IS 1) and for separated trackball/joystick/touch pad circuit (IS2):

Voltage	Ui	DC	5.4	V
Current	li		240	mA
Power	Pi		600	mW
Max. internal capacitance	Ci		24	μF
Max. internal inductance	Li		negligible	

Ambient temperature range $$T_a$$ -20 °C up to +50 °C

SPECIFIC CONDITIONS OF USE: YES as shown below:

The danger of ignition due to propagating brush discharges must be avoided by mounting the apparatus in areas without intensive charging mechanism.

The connecting cable must be fixed and effectively protected against damage.

For the types EXTA*-*-*6-X a capacitance of 7 pF was measured at the non-grounded joystick. Therefore, electrostatic charges in the area of Group IIC must be avoided.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The keyboard has been assessed in acc. with the current standard versions. The schematic and layout has been changed slightly.

Alternative a new mouse device M4 (touchpad) and an other front foil can be used. Additional enclosures and a slightly changed front panel variant are possible.

Max. internal capacitance has been decreased from 25 μ F to 24 μ F.

Changed manufacturing locations.

Additional to the device type EXTA2-*.*-X a new device type EXTA3-*-*-X has been introduced. A new "Condition of Use" has been introduced.