



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEx BVS 05.0013</b>	Page 1 of 5	<u>Certificate history:</u> <a href="#">Issue 0 (2005-12-20)</a>
Status:	<b>Current</b>	Issue No: 1	
Date of Issue:	2022-05-24		
Applicant:	<b>COOPER CROUSE-HINDS GmbH</b> Neuer Weg Nord 49, 69412 Eberbach Germany		
Equipment:	<b>Mouse modul type Challenger Mi-PS2, Challenger Mi-PS2-B</b>		
Optional accessory:			
Type of Protection:	<b>Intrinsic safety</b>		
Marking:	<b>Ex ia IIC T4</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**Jörg Koch**

Position:

**Head of Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **COOPER CROUSE-HINDS GmbH**  
Neuer Weg Nord 49, 69412 Eberbach  
Germany

Manufacturing locations: **COOPER CROUSE-HINDS GmbH** **S.C. Cooper Industries Romania**  
Neuer Weg Nord 49, 69412 Eberbach **S.R.L.**  
Germany Zona Industrială Vest, Str. III, Nr. 12  
310510 Arad  
Romania

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 60079-0:2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition:4.0

**IEC 60079-11:1999** Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'  
Edition:4

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 Report:

[DE/BVS/ExTR06.0030/01](#)

Quality Assessment Reports:

[DE/BVS/QAR11.0006/11](#)

[DE/BVS/QAR11.0009/12](#)

IECEx ATR:

File reference:



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### Product description

The mouse modul is an intrinsically safe apparatus e.g. for entering and decoding data. The electrical parts are integrated into a light metal enclosure.

The connection of the intrinsically safe circuit(s) is done by terminals or (a) permanently connected cable(s) with connector(s).

**SPECIFIC CONDITIONS OF USE: NO**



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

The name and address of the manufacturer has changed:

Cooper Crouse-Hinds GmbH, Neuer Weg Nord 49, 69412 Eberbach formerly GeCma Components GmbH, Heisenbergstr. 26-40, 50169 Kerpen

An additional manufacturer location was added.



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## Additional information:

### Electrical parameters

1	Circuits for type Mi-PS2 Terminals K46-1 up to K46-4 or strips brown/white/yellow/green or strips 1 - 4				
	Voltage	Ui	DC	5,5	V
	Power	Pi		1	W
	max. internal capacitance	Ci		15	µF
	max. internal inductance	Li	negligible		
2	Circuits for type Mi-PS2-B				
2.1	Power supply circuit (terminals K46-1 and K46-2 or strips brown - white or strips 1 - 2)				
	Voltage	Ui	DC	5,5	V
	max. internal capacitance	Ci		15	µF
	max. internal inductance	Li	negligible		
2.2	Circuit data (terminals K46-3 and K46-2 or strips yellow - white or strips 3 - 2) Circuit clock (terminals K46-3 and K46-2 or strips green - white or strips 4 - 2) Values for each circuit				
	Voltage	Uo	DC	5,5	V
	Current	Io		71	mA
	Power	Po		100	mW
3	Ambient temperature range		-30 °C up to +70 °C		