

IECEx Certificate of Conformity

Certificate No.: Status:	IECEx DEK 17.0018X Current 2018-02-09	Ex Scheme visit www.iecex.com Page 1 of 3 Issue No: 0	Certificate history:
Status:	Current	-	<u>Certificate history:</u>
		Issue No: 0	-
	2018-02-09	13502 110. 0	
Date of Issue:			
Applicant:	Mettler Toledo GmbH Im Langacher 44 CH-8606, Greifensee Switzerland		
Equipment:	barrier Model ISB, with factory numbers ISB05000, ISB15000, ISB05X000 and ISB15X000		
Optional accessory:			
Type of Protection:	Ex i, Ex t, Ex d		
Marking:	For Factory Numbers ISB05000 and ISB15000 [Ex ib Gb] IIC [Ex ib Db] IIIC For Factory Numbers ISB05X000 and ISB15X0 Ex d [ib IIC] IIB+H2 T6 Gb or Ex tb [ib] IIIC T85 °C Db or Ex tb [ib] IIIC T85 °C Db or Ex tb [ib IIC Gb] IIIC T85 °C Db		
Approved for issue on behalf of the IECEx Certification Body:		R. Schuller	
Position:		Certification Manager	
Signature: (for printed version)			
Date: (for printed version)			
2. This certificate is not t	hedule may only be reproduced in full. ransferable and remains the property of the issuing body. ticity of this certificate may be verified by visiting www.iec	ex.com or use of this QR Code.	

DEKRA Certification B.V. Meander 1051 6825 MJ Arnhem **Netherlands**





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Manufacturer:	Mettler-Toledo, LLC 1150 Dearborn Drive Worthington, Ohio 43085 USA United States of America	
Manufacturing locations:		
IEC Standard list bel found to comply with	ow and that the manufacturer's quality system	tative of production, was assessed and tested and found to comply with the n, relating to the Ex products covered by this certificate, was assessed and s certificate is granted subject to the conditions as set out in IECEx Scheme
STANDARDS : The equipment and a to comply with the fo		e schedule of this certificate and the identified documents, was found
IEC 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements	
IEC 60079-1:2007 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"	
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"	
IEC 60079-31:2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'	

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:

NL/DEK/ExTR17.0036/00

Quality Assessment Report:

NL/DEK/QAR12.0038/04



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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Description:

Barrier, Model ISB, with barrier factory numbers ISB05000 and ISB15000, is a zener barrier.

Barrier, Model ISB, with factory numbers ISB05X000 and ISB15X000 consists of a safety barrier in type of protection Ex i, with factory number ISB05000 or ISB15000 respectively, mounted inside an enclosure in type of protection Ex d and Ex t.

The barriers are used as an interface for intrinsically safe signal transmission and supply of a weighing system.

Ambient temperature range: -10 °C to +40 °C.

Electrical data:

Signal/supply circuit (green connector): U_m = 253 Vac.

Signal/supply circuit (blue connector): in type of protection intrinsic safety Ex ib IIC, with the following maximum values (circuits combined): for barrier factory number ISB05000 and ISB05X000 (5 V version): U_0 = 8.6 V; I_0 = 0.30 A; P_0 = 0.41 W; C_0 = 6.2 µF; L_0 = 0.3 mH, and for barrier factory number ISB15000 and ISB15X000 (15 V version): U_0 = 17.2 V; I_0 = 0.30 A; P_0 = 1.2 W; C_0 = 353 nF; L_0 = 150 µH.

The earth connection of the barrier shall be connected to the potential equalizing (P.E.) system in accordance with the applicable installation standard.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Precautions shall be taken to minimize the risk from electrostatic discharge of the label of model ISB05X000 and model ISB15X000.