

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx UL 08.0005U	issue No.:6	Certificate history:
Status:	Current		Issue No. 6 (2016-8-11) Issue No. 5 (2015-2-17) Issue No. 4 (2013-11-
Date of Issue:	2016-08-11	Page 1 of 4	27) Issue No. 3 (2013-4-18) Issue No. 2 (2010-7-21)
Applicant:	Adalet, A Scott Fetzer C 4801 W. 150th Street Cleveland, OH 44135 United States of Americ		Issue No. 1 (2008-10- 15) Issue No. 0 (2008-3-17)
Equipment: Optional accessory:	Enclosures, XIHNX, XIHL)	X, XDHLX, XIHMX, XDHMX, XIH	MKX XIHX, XDHX, XIHNSX
Type of Protection:	Flameproof "db" Protection by Enclosure "tb"		
Marking:	Series XIHX, XIHMX, XIHMKX, XIHLX, XIHNX and XIHNSX: Ex db IIC Gb; Ex tb IIIC Db IP66 Series XDHX, XDHMX and XDHLX: Ex db IIB +H2 Gb; Ex tb IIIC Db IP66		
Approved for issue on bel Certification Body:	half of the IECEx	Katy A. Holdredge	
Position:		Senior Staff Engineer	
Signature: (for printed version)			
Date:		2016-08-11	
2. This certificate is not tra	edule may only be reproduce ansferable and remains the p ticity of this certificate may be		CEx Website.
Certificate issued by:			0
Νοι	UL LLC 333 Pfingsten Road rthbrook IL 60062-2096 ited States of America		(UL)



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Manufacturer:	Adalet/Scott Fetzer Co. 4801 W. 150th Street Cleveland, OH 44135 United States of America	
Additional Manufacturing location (s): Adalet, A Scott Fetzer Company 4300 Windfern Road Suite 200 Houston, TX 77041 United States of America		
found to comply with the IEC Star covered by this certificate, was as	cation that a sample(s), representative of product ndard list below and that the manufacturer's qual ssessed and found to comply with the IECEx Qu e conditions as set out in IECEx Scheme Rules,	lity system, relating to the Ex products ality system requirements. This
STANDARDS:		

The electrical apparatus 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 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

This Certificate **does not** indicate compliance with electrical 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: US/UL/ExTR07.0015/05

Quality Assessment Report:

US/ETL/QAR11.0002/02

US/UL/QAR08.0003/06

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	Schedule	
The flameproof copper-free enclosures, the 316 stainle and the aluminium or 316 s solid, extended cover solid The single-ended enclosur provided with a threaded c ended bodies, up to four co provided for the XIHNSX n DS431E, DS437E, DS6811	stainless steel XDHX, XDHMX and XDHL, , flat glass and dome glass covers are interest es are similar to the double-ended enclose over at both ends of the body. Up to three onduit entries can be provided in the single	IHMX, XIHMKX and XIHLX single ended s, the aluminium XIHNX single ended enclosures, X double ended enclosures with flat solid, dome ended to be used primarily as instrument housings. ures, except the double-ended enclosures are e conduit entries can be provided in the double- e-ended bodies, and up to six conduit entries can be ne control drawing Nos. DS411E, DS428E, DS430E
CONDITIONS OF CERTIF	ICATION: NO	



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Added Schedule of Limitations details.

Issue 2: Update Schedule of Limitations to include items required to be listed by D.3.10 of IEC 60079-1: 2007.

Issue 3: Addition of the XIHNS_X Series and the Houston manufacturing location. Also upgraded to IEC 60079-0 Ed. 6 and IEC 60079-31 Ed. 1. Removed a construction option.

Issue 4: Addition of XIHNX Series of enclosures.

Issue 5: Updating glass options and minor construction changes that do not affect the protection methods.

Issue 6: Updated IEC 60079-1 and IEC 60079-31 to latest versions.

Nomenclature for type:

XIH	FC	Х
Ι	II	III

I - Enclosure Type

XIH – Single small body
XDH – Double small body
XIHM – Single medium body
XIHMK – Single short medium "K" body
XDHM – Double medium body
XIHL – Single large body
XDHL – Double large body
XIHNS- Single ended style body
XIHN – Single ended style body

II - Enclosure Covers

FC – Flat cover (XIH, XDH, XIHM, XDHM, XIHMK, XIHL, XDHL, XIHN, XIHNS only) FGC – Flat glass cover (XIH, XDH, XIHM, XDHM, XIHMK, XIHL, XDHL, XIHN, XIHNS only)

DC – Dome cover (XIH, XDH, XIHM, XDHM, XIHMK, XIHL, XDHL, XIHN, XIHNS only) DGC – Dome glass cover (XIH, XDH, XIHM, XDHM, XIHMK, XIHL, XDHL, XIHN, XIHNS only)

MC – Midsize flat cover (XIHM, XDHM, XIHMK only)

EC – Extended cover (XIHL and XDHL only)

TGC – Truncated glass cover (XIHN only)

KFC – Flat Cover, "K" (XIHM, XDHM, XIHMK only)

KFGC - Flat glass cover "K" (XIHM, XDHM, XIHMK only)

III – Additional Suffix

X – Suffix denotes European certification

Schedule of Limitations

- Approval applies to equipment without cable glands. Only cable glands certified for protection types 'db', 'tb', and have an IP66 rating may be used.
- All unused device openings must be fitted with a close up plug provided with the Ex component enclosures or a certified close-up plug with protection types 'db', 'tb', and have an IP66 rating.
- Refer to Drawing No. DS833 for number, size, and position of entries.
- The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow and therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5mm.
- No temperature tests were conducted as the enclosure is certified as an empty Ex component. The maximum service temperature is based off the ambient temperature of
 50°C to 1400°C for silicope or ringe or 24°C to 1400°C for Nitrilo Rupe N or ringe

-50°C to +100°C for silicone o-rings or -34°C to +100°C for Nitrile Buna N o-rings.

- To minimize the risk of electrostatic charge, provisions shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur
- Oil-filled circuit breakers and contactors shall not be used.
- Rotating machines, or other devices which create turbulence, shall not be incorporated.
- The cross-sectional area of the corresponding internal ground conductor must be taken into account during final product evaluation.
- The Hazardous Location Solutions reducers shall not be used for the direct inter-connection of enclosures.
- Only one Hazardous Location Solutions reducer shall be used with any single cable entry on the associated equipment.

All conduit sealing fittings must be certified as flameproof 'db', dust ignition protection 'tb', and have a minimum IP66 rating equal to the marking on the enclosure.