

EC-TYPE EXAMINATION CERTIFICATE



[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: **DEMKO 09 ATEX 0816570X**

[4] Equipment or Protective System: **XIFCX Control Station Enclosures**

[5] Manufacturer: **Adalet, A Scott Fetzer Co.**

[6] Address: **4801 W. 150th Street, Cleveland, OH 44135 USA**

[7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **08NK16570**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006

EN 60079-1:2007

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.
These are not covered by the certificate.

[12] The marking of the equipment or protective system shall include the following:

 **II 2 G Ex d IIB T6/T5**

Certification Manager
Jan-Erik Storgaard

Certification Body

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Date of issue [2009-02-27]

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Description of Equipment or protective system

The devices are Ex d IIB cast control station enclosures constructed of 359 aluminum or 316 stainless steel with integral cast-on mounting lugs for use with a flat cover, containing specifications for threaded conduit/cable entries. Terminal/conductor arrangement tables are provided under the terminal content sheets. Enclosures are provided with operators and other auxiliary devices specified in Drawing DS858.

Enclosure Catalog Numbers:

XIFCX-030303 XIFCX-030903 XIFCX-030703 XIFCX-031503 XIFCX-033003
 XIFCX-041204 XIFCX-061206 XIFCX-030603 XIFCX-031103 XIFCX-031803
 XIFCX-033603 XIFCX-060606 XIFCX-070704 XIFCX-031303 XIFCX-032403
 XIFCX-040604 XIFCX-060608

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-20 °C to +40 °C	T6
-20 °C to +55 °C	T5

Electrical data

Maximum Working Voltage:

600 VAC/VDC – Contact Blocks
 120 VAC/VDC – XMOL Pilot Lights
 240 VAC/VDC – XLX and XLXS Pilot Lights
 1100 VAC – Terminal Blocks

Installation instructions

All cable entry devices and blanking elements shall be certified as flameproof according to EN 60079-1 and have a minimum gas group and IP rating equal to the marking on the enclosure.

All unused enclosure openings must be fitted with a certified close-up plug equivalent of the enclosure and must be marked with an IP66 rating.

All conductors/cables shall be suitable for +80°C for +40°C ambient and +95°C for +55°C ambient.

The number of conductors entering an enclosure plus the number of internal connections (bridges and ground conductors are not counted) shall not exceed the terminal content sheets for the applicable enclosure. See enclosure size terminal content sheet table for data sheet number for the applicable enclosure (Drawing Nos. DS769-1 to DS769-17).

For installation using conduit: All conduit runs must have a sealing fitting within one conduit diameter of 2 in. [50 mm] whichever is less.

If replacing any internal components, devices and/or apparatus, use only the same components, devices or apparatus as supplied with the enclosure. Refer to the bill of material drawings included with this assembly for correct catalog/model numbers. The installation of any component, other than what was supplied, will void enclosure certification and the supplier must bear the burden of proof for final evaluation, testing and documentation.

Routine tests

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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Report No.

Project Report No.: 08NK16570 (Hazardous Location Testing)

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Documents:

Description:	Drawing No.:	Rev. Level:	Date:
XIFCX Enclosure Assemblies (5 Pages)	DS858	A	2008-10-02
XIFCX Nameplate	7537	A	2006-12-08
Terminal Content Sheets (17 Pages)	DS769	B	2007-10-18
Installation Instructions (4 Pages)	DS782	A	2008-10-01
Plug XPB1/XPB2, 3/8 NPSM N4	15562-7	A	1999-04-01
Close Up Plug Steel Hex Socket	5318-SH	B	1980-09-10
Close Up Plug Square Socket	5318-S	D	1995-03-07
XPP3 Plug 3/4 NPSM Black Anodized	5375	F	1996-08-05
XPPH3 N4, Plug 3/4 NPSM Stainless Steel	6014	D	1993-09-02
XPP2 N4 Plug 1/2 NPSM	6084	A	1988-12-21
Close Up Plug 3/4-16 UNF-2A	6085	A	1987-08-18
XMPP Close Up Plug Stainless Steel	6127	A1	1991-10-02
XPPH4 N4 Plug 1 NPSM	7069	B	1998-07-21
XPPL 1-11 1/2 NPSM Plug	S-3634	A	1983-05-04
Plug for Lighting Panel 3/8-18 NPSM Stainless Steel	4739	A	1999-02-23
XHPBS Operator	4320, 4210(-1)	W, D	-
XHPBMS Operator	4376(-1), 4320, 7812	W, D, B	-
XHPBSL Operator	4320, 4210(-1), 7812	W, D, B	-
XHPPMS Operator	4320, 5867(-1), 5872-1	W, C, A	-
XHSSS Operator	4320, 4212(-5), 7812	W, P, B	-
XHSSC Operator	4320, 4212(-7), 7812	W, P, B	-
XHSSR Operator	4320, 4212(-7), 7812	W, P, B	-
XHSSL Operator	4320, 4212(-7), 7812	W, P, B	-
XHSSPL Operator	4212(-2), 4321, 7813	T, P, B	-
XHSSSPL Operator	4320, 4212(-1), 7812	W, P, B	-
XSSS-4P Operator	4320, 5966(-1), 7812	W, C	-
XSSS-5P Operator	5966(-1), 4320, 7812	T, C	-
XHKSSS Operator	4212(-1), 4320, 7812	W, P, B	-
XHKSSC Operator	4320, 4212(-3), 7812	W, P, B	-
XHKSSR Operator	4320, 4212(-3), 7812	W, P, B	-
XHKSSL Operator	4320, 4212(-3), 7812	W, P, B	-
XPOS Operator	4320, 4493(-1), 7812	W, J, B	-
XPOCS Operator	4320, 4493(-3), 7812	W, J, B	-
XHPB Operator	4321, 4210(-2), 7813	T, D, B	-
XHPBMS Operator	4321, 4376(-2), 7813	T, D, B	-
XHPBL Operator	4321, 4210(-2), 7813	T, D, B	-
XHPPM Operator	5867(-2), 4321, 5873-1	T, C, A	-
XHSS Operator	4212(-6), 4321, 7813	T, P, B	-
XHSC Operator	4212(-8), 4321, 7813	T, P, B	-

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XHSR Operator	4212(-8), 4321, 7813	T, P, B	-
XHSL Operator	4212(-8), 4321, 7813	T, P, B	-
XSSL-4P Operator	5966(-2), 4321, 7813	W, C	-
XSSL-5P Operator	5966(-2), 4321, 7813	W, C	-
XHKSS Operator	4212(-2), 4321, 7813	T, P, B	-
XHKSC Operator	4212(-4), 4321, 7813	T, P, B	-
XHKSR Operator	4212(-4), 4321, 7813	T, P, B	-
XHKSL Operator	4212(-4), 4321, 7813	T, P, B	-
XPO Operator	4493(-2), 4321, 7813	T, J, B	-
XPOCS Operator	4321, 4493(-4), 7813	T, J, B	-
XHDPB Operator	4323, 4214(-2), 8064	O, G, A	-
XHDMC Operator	4323, 4355, 4354(-2), 8064	O, E, F, A	-
XHDPBS Operator	4322, 4214(-1), 8063	U, G, A	-
XHDMCS Operator	4322, 4355, 4354(-1), 8063	U, E, F, A	-
XR Operator	4757-1, 4378	H, C	-
XRBL Operator	4757-2, 4378	H, C	-
XCS-1 Operator	3234-1, 3117(-1)	J, K	-
XCS-2 Operator	3234-2, 3117(-2)	J, K	-
XCS-3 Operator	3234-3, 3117(-3)	J, K	-
XCS-4 Operator	3234-4, 3117(-4)	J, K	-
XCS-5 Operator	3234-5, 3117(-5)	J, K	-
XBOS Operator	7193, 7197	D, D	-
XPOL Operator	4321, 4493(-2), 7813	T, J, B	-
XPOSL Operator	4320, 4493(-1)	W, J	-
XBO Operator	7194, 7204	E, E	-
XLX/XLXS Pilot Lights	DS742	B	-
XCBH 21 Operator	4456, 4457(-1)	K, H	-
XCBH 22 Operator	4456, 4457(-1)	K, H	-
XCBH1GF-L Operator	4456, 4457(-1)	K, H	-
XCBH1GF-R Operator	4456, 4457(-1)	K, H	-
XPB1-GL1 Operator	4456, 7188(-3)	K, L	-
XPB1-GR1 Operator	4456, 7188(-3)	K, L	-
XPB1-H1 Operator	4456, 7059-1	K, B	-
XPB1-H2 Operator	4456, 7059-1	K, B	-
XPB1-H3 Operator	4456, 7059-1	K, B	-
XPBH1-GL2 Operator	4456, 7059-1	K, B	-
XPBH1-GR2 Operator	4456, 7059-1	K, B	-
XPB2-H1 Operator	4456, 7059-1	K, B	-
XMORBS Operator	6094(-1), 6196(-1)	H, C	-
XMORB Operator	6094(-2), 6196(-2)	H, C	-
XMOB-1 through -14 Operators	6094(-2), 6096(-2)	H, J	-
XMOBS-1 through -14 Operators	6094(-1), 6096(-1)	H, J	-

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XMOS-1 through -3 Operators	6107(-1), 6111(-1)	D, F	-
XMOSS-1 through -3 Operators	6107(-2), 6111(-2)	D, F	-
XIRB Operator	6200, 6201	D, C	-
XIRBS Operator	6211, 6210	F, F	-
XMOL (R/A/G) Operator	6101, 6103	D, A	-
XCBH2-1 Operator	5267, 4264	J, GG	-
XCBH2-2 Operator	5267, 4264	J, GG	-
XCBH2-3 Operator	5267, 4264	J, GG	-
XCBH2-4 Operator	5267, 4264	J, GG	-
XBDH 2 Breather	15876	E	2000-03-23
XBDH 2 Breather	S6664-1	A	2007-05-25

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Special conditions for safe use:

- Dimensions of flameproof joints are other than the relevant minimum or maximum specified in Tables 1 through 2 of IEC 60079-1:2007. The control station enclosures are to be marked with an "X" and manufacturer's Drawing No. DS858 details the dimensions of the flameproof joints.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The XIFCX Enclosures have in addition passed the tests for Ingress Protection to IP 40 in accordance with EN60529: 1991/A1 2001.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

Certification Manager

Jan-Erik Storgaard



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Certification Body

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