

# EC-TYPE EXAMINATION CERTIFICATE



- [2] **Component intended for use on/in equipment or protective system  
intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 15 ATEX 1575U Rev. 0**
- [4] Component: **Flameproof Operators**
- [5] Manufacturer: **Adalet/Scott Fetzer Co.**
- [6] Address: **4801 W. 150<sup>th</sup> Street, Cleveland, OH 44135 USA**
- [7] This Component 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 component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components 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. **4786666172**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012+A11:2013** **EN 60079-1:2014**
- [10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- [12] The marking of the component shall include the following:

 **II 2 G Ex db IIC Gb**

**Certification Manager**  
Jan-Erik Storgaard

This is to certify that the sample(s) of the Component described herein ("Certified Component") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the component sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured component. UL has not established Follow-Up Service or other surveillance of the component. The Manufacturer is solely and fully responsible for conformity of all component to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2016-03-09

**Notified Body**

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**Schedule**  
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Description of Component:

The flameproof operators are utilized to complete a flameproof enclosures. The operators are threaded into a flameproof enclosure and utilize a shaft to attach an external operation device.

**PUSH BUTTON CATALOG NUMBERS:**

XHPB	PL
I	II

I	XHPB	PUSH BUTTON, STANDARD BUTTON, LONG
	XHPBS	PUSH BUTTON, STANDARD BUTTON, SHORT
	XHPBM	PUSH BUTTON, MUSHROOM HEAD BUTTON, LONG
	XHPBMS	PUSH BUTTON, MUSHROOM HEAD BUTTON, SHORT
II	PL	LOCKOUT DEVICE

**PUSH PULL CATALOG NUMBERS**

XHPPM	PUSH, PULL, LONG, STANDARD OPERATION
XHPPMS	PUSH, PULL, SHORT, STANDARD OPERATION
XHPPM-TTR	PUSH, PULL, LONG, TWIST TO RELEASE OPERATIONS
XHPPMS-TTR	PUSH, PULL, SHORT, TWIST TO RELEASE OPERATIONS

**RECESSED RESET BUTTON CATALOG NUMBERS**

XRBR	A
I	II

I	XRBR	RECESSED RESET BUTTON
II	A	ADDITIONAL LETTERS OR NUMBERS

**KEYED SELECTOR SWITCH CATALOG NUMBERS**

XHKSS	KEYED SELECTOR SWITCH, LONG, STANDARD ACTIVATION, 2 OR 3 POSITION (NO SPRING RETURN)
XHKSC	KEYED SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM LEFT AND RIGHT, 3 POSIITON
XHKSL	KEYED SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 3 POSITION
XHKSL2	KEYED SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 2 POSITION
XHSR	KEYED SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 3 POSITION
XHKSR2	KEYED SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 2 POSITION
XHKSSS	KEYED SELECTOR SWITCH, SHORT, STANDARD ACTIVATION, 2 OR 3 POSITION (NO SPRING RETURN)
XHKSSC	KEYED SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM LEFT AND RIGHT, 3 POSITION

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XHKSSL	KEYED SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 3 POSITION
XHKSSL2	KEYED SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 2 POSITION
XHKSSR	KEYED SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 3 POSITION
XHKSSR2	KEYED SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 2 POSITION

## SELECTOR SWITCH CATALOG NUMBERS

XHSR	PL
I	II

I	XHSS	SELECTOR SWITCH, LONG, STANDARD ACTIVATION, 2 OR 3 POSITION (NO SPRING RETURN)
	XHSC	SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM LEFT AND RIGHT, 3 POSITION
	XHSL	SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 3 POSITION
	XHSL2	SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 2 POSITION
	XHSR	SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 3 POSITION
	XHSR2	SELECTOR SWITCH, LONG, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 2 POSITION
	XHSSS	SELECTOR SWITCH, SHORT, STANDARD ACTIVATION, 2 OR 3 POSITION (NO SPRING RETURN)
	XHSSC	SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM LEFT AND RIGHT, 3 POSITION
	XHSSL	SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 3 POSITION
	XHSSL2	SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM LEFT, 2 POSITION
	XHSSR	SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 3 POSITION
	XHSSR2	SELECTOR SWITCH, SHORT, SPRING RETURN ACTIVATION TO CENTER FROM RIGHT, 2 POSITION
II	PL	LOCKOUT DEVICE

## MULTI-POSITION SWITCH CATALOG NUMBERS

XSS	-	4P
I	II	III

I	XSSL	SELECTOR SWITCH, LONG
	XSSSS	SELECTOR SWITCH, SHORT
II	DASH	
III	ADDITIONAL LETTERS OR NUMBERS	



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POTENTIOMETER CATALOG NUMBERS

XPO	POTENTIOMETER, LONG, STANDARD DIAL
XPOS	POTENTIOMETER, SHORT, STANDARD DIAL
XPOC	POTENTIOMETER, LONG, COUNTER DIAL
XPOCS	POTENTIOMETER, SHORT, COUNTER DIAL
XPOL	POTENTIOMETER, LONG, LARGE DIAL
XPOLS	POTENTIOMETER, SHORT, LARGE DIAL

RESET BUTTON CATALOG NUMBERS

XRB	A
I	II

I	XRB	RESET BUTTON, SHORT
	XRBL	RESET BUTTON, LONG
II	ADDITIONAL LETTERS AND NUMBERS	

DUAL PUSH BUTTON CATALOG NUMBERS

XHDPB	L
I	II

I	XHDPB	DUAL PUSH BUTTON, LONG, MOMENTARY CONTACT
	XHDPBS	DUAL PUSH BUTTON, SHORT, MOMENTARY CONTACT
	XHDMC	DUAL PUSH BUTTON, LONG, MAINTAINED CONTACT
	XHDMCS	DUAL PUSH BUTTON, SHORT, MAINTAINED
II	L	LOCKOUT DEVICE

COUPLING SHAFT CATALOG NUMBERS

XCS	2
I	II

I	XCS	COUPLING SHAFT
II	2	1/4 DIAMETER
	3	5/16 DIAMETER
	5	1/2 DIAMETER

INTERMEDIATE RESET BUTTON CATALOG NUMBERS

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XIRB	INTERMEDIATE RESET BUTTON, LONG
XIRBS	INTERMEDIATE RESET BUTTON, SHORT

MINIATURE PUSH BUTTON CATALOG NUMBERS

XMOB	-	1
I	II	III

I	XMOB	MINIATURE PUSH BUTTON, LONG
	XMOBS	MINIATURE PUSH BUTTON, SHORT
II	DASH	
III	ADDITIONAL LETTERS AND NUMBERS	

MINIATURE RESET BUTTON CATALOG NUMBERS

XMORB	MINIATURE RESET BUTTON, LONG
XMORBS	MINIATURE RESET BUTTON, SHORT

MINIATURE SELECTOR SWITCH CATALOG NUMBERS

XMOS	-1
I	II

I	XMOS	MINIATURE SELECTOR SWITCH, LONG
	XMOSS	MINIATURE SELECTOR SWITCH, SHORT
II	ADDITIONAL LETTERS OR NUMBERS	

MINIATURE PILOT LIGHT CATALOG NUMBERS

XMOL	A	120V
I	II	III

I	XMOL	MINIATURE PILOT LIGHT
II	A	AMBER
	B	BLUE
	C	CLEAR
	G	GREEN
	R	RED
	W	WHITE
III	120V	120 VOLTS AC OR DC
	24V	24 VOLTS AC OR DC

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	12V	12 VOLTS AC OR DC
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**PILOT LIGHT CATALOG NUMBERS**

XLX	R	120	-	G
I	II	III	IV	V

I	XLX	PILOT LIGHT, LONG
	XLXS	PILOT LIGHT SHORT
II	A	AMBER
	B	BLUE
	C	CLEAR
	G	GREEN
	R	RED
	W	WHITE
III	120	VOLTAGE (12-120, 240)
IV	-	DASH
V	G	GUARDED CAP

**LIGHTED PUSH BUTTON CATALOG NUMBERS**

XLPX	A	X	12
I	II	III	IV

I	XLP	LIGHTED PUSH BUTTON, LONG
	XLPS	LIGHTED PUSH BUTTON, SHORT
II	A	AMBER
	B	BLUE
	C	CLEAR
	G	GREEN
	R	RED
	W	WHITE
III	X	
IV	12	VOLTAGE (12-120, 240)

**LARGE BREAKER HANDLE CATALOG NUMBERS**

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XCBH2	-	1
I	II	III

I	XCBH2	BREAKER HANDLE
II	-	DASH
III	ADDITIONAL LETTER AND NUMBERS	

**SMALL HANDLE CATALOG NUMBERS**

X2PB	1	-H	GR1
I	II	III	IV

I	X2PB	SMALL HANDLE, PANELBOARD
II	ADDITIONAL LETTERS AND NUMBERS	
III	-H	
IV	ADDITIONAL LETTERS AND NUMBERS	

XCBH	21
I	II

I	XCBH	SMALL HANDLE, BREAKER
II	ADDITIONAL LETTERS AND NUMBERS	

XRSO1	1
I	II

I	XRSO1	SMALL HANDLE, ROTARY STYLE
II	ADDITIONAL LETTERS AND NUMBERS	

**OPERATORS HANDLE CATALOG NUMBERS**



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XBO2	-	6
I	II	III

I	XBO2	OPERATOR HANDLE, LONG
	XBOS2	OPERATOR HANDLE, SHORT
II	-	DASH
III	ADDITIONAL LETTERS AND NUMBERS	

Temperature range:

The ambient temperature range is -50 °C to +100 °C.

Installation instructions

Operators must be mounted on a flat surface in a suitable ATEX flameproof enclosure and installed in accordance with the instructions.

For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

Mounting instructions

Refer to "Instructions".

Routine tests

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

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Descriptive Documents

The scheduled documents are listed in the report no. provided under item no. [ 8 ] on page 1 of this EC-Type Examination Certificate.

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Schedule of limitations:

- Repairs of flameproof joints are not permitted. If a flameproof joint is damaged please contact Adalet.
- WARNING: WIPE WITH DAMP CLOTH TO REDUCE THE POTENTIAL FOR ELECTRO-STATIC DISCHARGE.

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Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

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.