

1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 00ATEX1037X
4 Equipment: BX Series Limit Switches
5 Applicant: Honeywell Control Systems Ltd
6 Address: 11309 Chetlain Lane
Galena
IL 61036-0327
USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report numbers R51X5740A, R51A7521A, V51V12308A, R51A11672A and R51A15078A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997
EN 50018:1994
EN 50281-1-1:1998

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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 and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 GD
EEx d IIC T6 (Ta = -40°C to +70°C) - fluorosilicone sealed head
EEx d IIC T6 (Ta = -12°C to +70°C) - fluorocarbon sealed head

Project Number 51A15078
Date 7 August 2000
Latest Issue 23 May 2006
C. Index 03

C Ellaby
Certification Officer

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Sira Certification Service

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 00ATEX1037X

13 DESCRIPTION OF EQUIPMENT

Re-issued 6 July 2005 to introduce the changes described in report number R51A11672A, this re-issue also incorporates variation 1 dated 5 September 2003 and variation 2 dated 26 October 2004.
Re-issued 23 May 2006 to introduce the changes described in report number R51A15078A

13 DESCRIPTION OF EQUIPMENT

The equipment is a series of limit and cable pull switches with varying methods of operation resulting in the depression of a plunger which in turn actuates a micro-switch. The enclosure body is of rectangular shape with a circular section in the middle. A circular lid, which is locked in place by a metal strap retained by an M4 star socket headed screw, screws onto the circular section of the base. The sealing material is either fluorocarbon or fluorosilicone. There is a point in the base of the enclosure which may be one of several size options. Each model in the series has its own BX unique type reference e.g. BX 3 A 1A 1 - 1A B.

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Issue	Rev.	Date	Description
	BX SERIES CHART 3	1 of 1	9	C	26 Sep 00	Switch – Enclosed
	LS-22150	1 of 1	-	2	27 Jun 00	Plunger, Actuator
	LS-22151	1 of 1	-	3	12 Dec 00	Plunger, Actuator
	LS-22158	1 of 1	-	4	23 Aug 01	Nameplate, Flexible
	LS-22159	1 of 1	-	4	23 Aug 01	Nameplate, Flexible
	LS-22160	1 of 1	-	4	23 Aug 01	Nameplate, Flexible
	LS-22161	1 of 1	-	4	23 Aug 01	Nameplate, Flexible
	LS-22162	1 of 1	-	4	23 Aug 01	Nameplate, Flexible
	LS-22169	1 of 1	-	2	17 Aug 04	Plunger, Actuator
	LS-22191	1 of 1	-	1	23 Aug 01	Nameplate, Flexible
	LS-22192	1 of 1	-	1	23 Aug 01	Nameplate, Flexible
	LS-22193	1 of 1	-	1	23 Aug 01	Nameplate, Flexible
	LS-22194	1 of 1	-	1	23 Aug 01	Nameplate, Flexible
	LS-22195	1 of 1	-	1	23 Aug 01	Nameplate, Flexible
	LS-22097	1 of 1	3	B	Jul 00	Nameplate, Flexible

14.2 Report numbers R51X5740A, R51A7521A, V51V12308A, R51A11672A and R51A15078A

Date 7 August 2000

Latest Issue 23 May 2006

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SCHEDULE

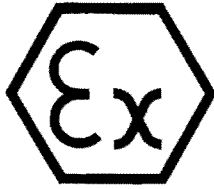
EC TYPE-EXAMINATION CERTIFICATE

Sira 00ATEX1037X

- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
- 15.1 When fitted with a fluorocarbon seal, the BX Series Limit Switches shall only be used where the ambient temperature is within the range -40°C to $+70^{\circ}\text{C}$, when fitted with a fluorosilicone seal, the BX Series Limit Switches shall only be used where the ambient temperature is within the range -12°C to $+70^{\circ}\text{C}$.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in report numbers R51X5740A, R51A7521A, V51V12308A and R51A11672A.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 The products shall be marked with the following ambient temperature ranges dependant upon the type sealing material used in their construction:
- Fluorosilicone sealed head - Ta -40°C to $+70^{\circ}\text{C}$
 - Fluorocarbon sealed head - Ta -12°C to $+70^{\circ}\text{C}$

Date 7 August 2000
Latest Issue 23 May 2006

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EC TYPE-EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER Sira 00ATEX1037X

Dated 7 August 2000
Latest Issue 23 May 2006

VARIATION NUMBER 1 (ONE)

Dated 15 November 2006

VARIATION TO EQUIPMENT

To permit:

- 1 The recognition of minor, administrative drawing modifications.

DESCRIPTIVE DOCUMENTS

Drawing No.	Sheet	Issue	Rev.	Date (Sira Stamp)	Description
BX SERIES CHART 3	1 of 1	10	D	25 Oct 06	Switch – Enclosed
LS-22097	1 of 1	4	C	25 Oct 06	Nameplate, Flexible
LS-22150	1 of 1	-	3	25 Oct 06	Plunger, Actuator
LS-22151	1 of 1	-	4	25 Oct 06	Plunger, Actuator
LS-22158	1 of 1	-	5	25 Oct 06	Nameplate, Flexible
LS-22159	1 of 1	-	5	25 Oct 06	Nameplate, Flexible
LS-22160	1 of 1	-	5	25 Oct 06	Nameplate, Flexible
LS-22161	1 of 1	-	5	25 Oct 06	Nameplate, Flexible
LS-22162	1 of 1	-	5	25 Oct 06	Nameplate, Flexible
LS-22169	1 of 1	-	3	25 Oct 06	Plunger, Actuator
LS-22191	1 of 1	-	2	25 Oct 06	Nameplate, Flexible
LS-22192	1 of 1	-	2	25 Oct 06	Nameplate, Flexible
LS-22193	1 of 1	-	2	25 Oct 06	Nameplate, Flexible
LS-22194	1 of 1	-	2	25 Oct 06	Nameplate, Flexible
LS-22195	1 of 1	-	2	25 Oct 06	Nameplate, Flexible

ADDITIONAL CONDITIONS OF CERTIFICATION

None

File No. 51A15422

Report No. R51A15422A

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