

UNIÃO BRASIL Imp Exp. de Equip. Ltda.
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[1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC

EC-Type Examination Certificate Number: Nemko 06ATEX1284X

Equipment or Protective System: Limit Switch Box

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

Nemko AS, notified body number 0470 in accordance with Article 9 of 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 the 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. 73261

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

CENELEC EN 60079-0: 2004 and CENELEC EN 60079-1: 2004

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.

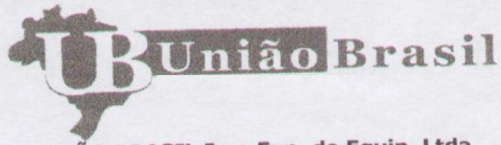
This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These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

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



II 2 G

Ex d IIB T6



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Description of Equipment or Protective System

Explosion-proof Limit Switch Box. Enclosure with flanged joint, threaded entries and shaft with cylindrical joints. Shaft operated mechanical switches, terminal strip with screw connections. Cable entries and plugs have to be appropriately certified. Cable entries and cable have to be appropriately rated with regard to the temperature.

Type Designation
4**N

Technical Data
Max 20A, 250V AC

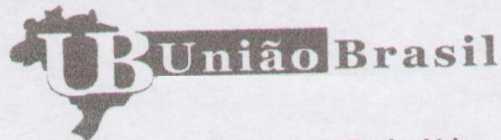
Ingress Protection Code
IP67 according to EN 60529.

Report No. 73261

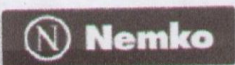
Descriptive Documents

Name/Title	Drawing/doc. No.	Rev.	Date	Sheets
Part List	-	-	2006-02-08	1
410 Layout	LB410-101-A	0	2005-01-27	1
410 Assembly	LB410-102-B	1	2006-09-21	1
Body	LB410-201-B	1	2006-09-23	1
Cover	LB410-202-B	1	2006-09-23	1
Bushing	LB410-301-A	0	2005-01-27	1
Shaft	LB410-302-A	0	2005-01-27	1
Captive Cover Bolt	LB410-303-A	0	2005-01-27	1
Blanking Plug	LB410-303-A	0	2005-07-01	1
Name Plate	LB410-401-A	1	2006-09-21	1
Ground Bracket	LB410-402-A	0	2005-01-27	1
Body O-ring	LB410-601-A	0	2005-01-27	1
Shaft O-ring	N501-00600	0	2005-01-27	1
Plug O-ring	N501-02200	0	2005-07-25	1
Window	LB410-501-A	0	2005-01-27	1
Indicator	LB410-502-A	0	2005-01-27	1
410N Wiring Drawing	LB410-A	0	2005-04-01	1
411N Wiring Drawing	LB411-A	0	2005-04-01	1
412N Wiring Drawing	LB412-A	0	2005-04-01	1
413N Wiring Drawing	LB413-A	0	2005-04-01	1

** Os originais encontram-se em poder da União Brasil.



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Date: 2006-10-20



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Descriptive Documents

Name/Title	Drawing/doc. No.	Rev.	Date	Sheets
414N Wiring Drawing	LB414-A	0	2005-04-01	1
415N Wiring Drawing	LB415-A	0	2005-04-01	1
416N Wiring Drawing	LB416-A	0	2005-04-01	1
420N Wiring Drawing	LB420-A	0	2005-04-01	1
421N Wiring Drawing	LB421-A	0	2005-04-01	1
422N Wiring Drawing	LB422-A	0	2005-04-01	1
423N Wiring Drawing	LB423-A	0	2005-04-01	1
430N Wiring Drawing	LB430-A	0	2005-04-01	1
431N Wiring Drawing	LB431-A	0	2005-04-01	1

Routine Test

Routine testing not required due to compliance of static pressure testing four times the reference pressure

- [17] **Special Conditions for Safe Use**
Ambient temperature: $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$
- [18] **Essential Health and Safety Requirements**
See item 9

Oslo, 2006-10-20

Rolf Hoel
Certification Manager, Ex-products

