



EU-TYPE EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V. identification number Notified Body 0400, commissioned by Decree no. 2022-0000107366

Certificate no.

: NL10-400-1002-125-01

Revision no.: 5

Description of the product

: Landing door locking device for manually operated swing doors with a possibility to be used in potentially explosive atmospheres

Trademark

: Prudhomme S.a.

Type no.

SPX4 & SPX4/EX

Name and address of the

: Prudhomme S.a.

manufacturer

38 rue Charles de Gaulle 94140 Alfortville, France

Name and address of the certificate holder

: Prudhomme S.a.

38 rue Charles de Gaulle 94140 Alfortville, France

Certificate issued on the following requirements

Lifts Directive 2014/33/EU

Certificate based on the following standard

Parts of: EN 81-1/2:1998 + A3:2009, EN 81-20:2020, EN 81-50:2020

Test laboratory

: None

Date and number of the laboratory report

: None

ideoratory report

Date of EU-type examination

: January 2023

Additional document with this

: Report belonging to the EU-type examination certificate

no.: NL10-400-1002-125-01 Rev.5

Additional remarks

Max. rated voltage:

230 VAC

230VDC

Max. rated current:

2.0 A

0.25A

Furthermore, see chapter 5 of the report belonging to this

EU-type examination certificate

This revision replaces certificate NL10-400-1002-125-01 rev.4 of

01-08-2022

Conclusion

certificate

: The safety component meets the requirements of the Lifts Directive 2014/33/EU taking into account any additional remarks

mentioned above.

Certification decision by

Amsterdam

Date

: 16-01-2023

Valid until

: 16-01-2028

W.G. Kasteleijn

Product Manager Certification





Report EU-type examination

Report belonging to EU-type examination certificate number : NL10-400-1002-125-01

Date of issue of original certificate

: March 5, 2010

Certificate applies to

Safety component

Revision number / date

5 / January 16, 2023

Requirements

Lifts Directive 2014/33/EU

Standards: EN81-1:1998 + A3:2009,

EN81-20:2020, EN81-50:2020

Project number

: P220386

General specifications

Description of the product

Door locking device for swing doors with a

possibility to be used in potentially

explosive atmospheres

Trademark

: Prudhomme S.a.

Type no.

: SPX4 & SPX4/EX

Name and address of the

Prudhomme S.a.

manufacturer

38 rue Charles de Gaulle 94140 Alfortville, France

Laboratory

: None

Address of examined Component

: Liftinstituut, Amsterdam, The Netherlands

Date of examination

January 2023

Examination performed by

: M. Issa

Description safety component

The SPX4 locking device is equipped with a lateral lever, SPX4/L, or a perpendicular lever, SPX4/P. There are 5 different versions: SPX4-O, SPX4-T, SPX4-K, SPX4-S and SPX4/+6. The indication D or G is used to indicate the right or left version. The used version depends on the locking device it replaces.

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The door locking device consists of two parts, the locking housing and the receiving contact. Inside the housing, a checking pin is provided to check if the landing door is properly closed. If the pin gets stuck the door lock contact won't close.

The locking takes place by a pin in a hole in the side of the landing door. The housing of the lock is made from die-cast. The top side is fitted with a clear cover so contacts and locking components can be inspected without removing any covers. Also is it possible to open the lock by means of a triangular key according annex B of the EN 81-1/2 and Fig. 13 of EN81-20. The lock shall be used for hinged landing doors. The contacts can be used up to 230 V AC and 2.0 A AC only.

The locking pin can both be with an inclined part or without. The version with a straight pin is especially for the lowest landing door which gives access to the well pit. Due to using the locking pin without chamfer, in case of the bottom landing door has been manually opened by using the unlocking key, the door will not be self-locking.

The SPX4/EX locking device is equipped with a lateral lever, SPX4/EX/L or LK, or a perpendicular lever, SPX4/EX/P1 or P2. The door locking device consists of two parts, the locking housing and the receiving contact. Inside the housing a checking pin is provided to check if the landing door is properly closed. If the pin gets stuck the door lock contact won't

The locking takes place by a pin in a hole in the side of the landing door. The housing of the lock is made from die-cast. The top side is fitted with a clear cover so locking components can be inspected without removing any covers. Also is it possible to open the lock by means of a triangular key according annex B of the EN 81-1/2 and Fig. 13 of EN81-20. The lock shall be used for hinged landing doors. The contacts can be used up to 230 VAC and 2.0 A or 120VDC and 0.25 A. The locking pin is with an inclined part.

See annex 1 for a general overview of the product

3. Examinations and tests

The examination covered a check whether compliance with the Lift Directive 2014/33/EU is met, based on the harmonized product standards EN81-1/2:1998 + A3:2009, EN81-20:2020 and EN81-50:2020.

The examination included:

- Examination of the technical file (See annex 2):
- Examination of the representative model in order to establish conformity with the technical file.
- Inspections and tests to check compliance with the requirements.

The tests performed are as stated in annex F1 of the EN81-1/2 and clause 5.2 of EN81-50.

3.1 Mechanical tests SPX4

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Endurance test

According F.1.2.2.1.1 of EN81-1/2 and clause 5.2.2.2.2 of EN81-50 an endurance test must be made. For this test a special testing apparatus was designed. With 60.0 rpm the actuator rod was driven. A mechanical counter was installed to keep track of the number of complete cycles.

Test details #1

Start date / time

February 8th, 2010 / 13:30

End date / time

March 5th, 2010 / 16:00 1.000,000

Number of cycles **Resistive circuit**

Test voltage

230 V

Test current

4.0 A

Test result: OK

Test details #2 for SPX4/+6

Start date / time

August 30th, 2012 / 14:00 September 13th, 2012 / 07:50

End date / time Number of cycles

1.000.000

Test result: OK

Static test #1

To perform the static test, a test weight of 102 kg was connected via a steel wire to the locking device in the opening direction. Test performed with Liftinstituut present.

Test details

Test date

September 21th, 2016

Test weight

1000N

Test result: OK

Static test #1

To perform the static test, a weight was linked to the locking pin.

Test details

Test date

March 5th, 2010

Test weight

3000N

Test result: OK

Static test #2 for SPX4/+6

To perform the static test, a force was exercised on the locking pin by use of a hydraulic press.

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Test details

Test date

September 13th, 2012

Test force

3000N

Test result: OK

Dynamic test #1

To perform the dynamic test, a block was dropped on the locking pin. The dropping distance was 50 cm.

Test details

Test date

March 5th, 2010

Test weight

4 kg

Dropping distance

50 cm

Test result: OK

Dynamic test #2 for SPX4/+6

To perform the dynamic test, a block was dropped on the locking pin. The dropping distance was 50 cm.

Test details

Test date

September 13th, 2012

Test weight

4 kg

Dropping distance

50 cm

Test result: OK

3.2 Electrical tests SPX4

The electrical features of SPX4/+6 have not been tested because it is similar to the already tested versions.

For endurance test, see 3.1 Mechanical tests.

Test result: OK

Test of ability to break circuit

In accordance with EN 60947-5-1, an circuit was made with a resistor and choke in series.

Test details

Test date

March 5th, 2010

Circuit

Test voltage

253 Vac

Test current

22.1 A

Cos o

 $0.7 = 45^{\circ}$

Test result: OK

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under number 34157363





Test for resistance of leakage currents

This test is not performed but based on the values from prior tests made by the manufacturers supplier, these values go beyond the requirements of the EN81-1/2 and EN81-20/50. The CTI value for Lexan 500 (10 % glass fibre) is 175V. The minimum value requested according to the mentioned standards is 175V. Also different literature confirm these values.

3.3 Mechanical tests SPX4/EX

Endurance test

According to F.1.2.2.1.1 of EN81-1/2 and clause 5.2.2.2.2 of EN81-50, an endurance test must be made. For this test, a special testing apparatus was designed. With 60.0 rpm the actuator rod was driven. A mechanical counter was installed to keep track of the number of complete cycles.

Test details

Start date / time

June 09th, 2011 / 14:30

End date / time

June 23th, 2011 / 08:00

Number of cycles

1.000.000

Resistive circuit

Test voltage

230 V

Test current

4.0 A

Test result: OK

Static test

To perform the static test, a force, by a hydraulic press, was applied to the locking pin.

Test details

Test date

June 23th, 2011

Test weight

3000N

Test result: OK

Dynamic test

To perform the dynamic test, a block was dropped on the locking pin. The dropping distance was 50 cm.

Test details

Test date

June 23th, 2011

Test weight

4 kg

Dropping distance

50 cm

Test result: OK

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3.4 Electrical tests:

Endurance test

see 3.3 Mechanical tests

Test result: OK

Test of ability to break circuit

In accordance with EN 60947-5-1, a circuit was made with a resistor and choke in series.

Test date

June 23 th, 2011

Circuit

Test voltage

253 Vac

Test current

22.0 A

Cos o

 $0.7 = 45^{\circ}$

Test result: OK

Test for resistance of leakage currents

This test is not performed but based on the values from prior tests made by the manufacturers supplier these values go beyond the requirements of the EN81-1/2 and EN81-20/50. The CTI value for Lexan 500 (10 % glass fibre) is 175V. The minimum value requested according to the mentioned standards is 175V. Also different literature confirm these values.

ATEX tests and DC tests were performed for the Steute Ex 13 R 10/1S (Cat. II) locking contact. Physikalisch-Technische Bundesanstalt in Braunschweig performed these ATEX tests. We adopted the results in our EU-type examination.

Results

After the final examination the product and the technical file were found in accordance with the requirements. The functional tests passed without remarks.

Conditions 5.

Additional to or in deviation of the applicable demands in the considered requirements / standards (see certificate and/or page 1 of this report), the following conditions shall be taken into account:

- The door lock shall be used for swing doors only.
- The door locking device shall be applied within rated current and voltage 2.0 A / 230 VAC or 0.25 A / 230 VDC.

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- The SPX4/EX lock shall always have the Steute Ex 13 R 1Ö/1S (Cat. II) locking contact.
- The user manual shall be provided with the component.
- Max. door gap at the locking side shall be 12.0 mm. In case of SPX4/+6 this can be increased to 18.0 mm maximum.
- Locking distance before making contact must be at least 7 mm.
- The SPX4 with locking pin without chamfer may only be used for the bottom landing door in case this door is the only access to the well pit and if the requirements of §7.7.2.2 of EN 81-1/2 are not applicable.
- The position of the unlocking triangle shall be according to clause 5.3.9.3.2 of EN81-20.

6. Conclusions

Based upon the results of the EU-type examination Liftinstituut B.V. issues an EU-type examination certificate.

The EU-type examination certificate is only valid for products which are in conformity with the same specifications as the type certified product. The certificate is issued based on the requirements that are valid at the date of issue. In case of changes of the product specifications, changes in the requirements or changes in the state of the art the certificate holder shall request Liftinstituut B.V. to reconsider the validity of the certificate.





CE marking and EU Declaration of conformity

Every safety component that is placed on the market in complete conformity with the examined type must be provided with a CE marking according to article 18 of the Lift directive 2014/33/EU under consideration that conformity with eventually other applicable Directives is proven. Also every safety component must be accompanied by an EU declaration of conformity according to annex II of the Directive in which the name, address and Notified Body identification number of Liftinstituut B.V. must be included as well as the number of the EU-type examination certificate.

An EU type-certified safety component shall be random checked e.g. according to annex IX of the Lift directive 2014/33/EU before these safety components may be CE-marked and may be placed on the market. For further information see regulation 2.0.1 'Regulations for product certification' on www.liftinstituut.com.

Prepared by:

Mohamed Issa

Product Specialist Certification

Certification decision by:

W.G. Kasteleijn

Product Manager Certification

Liftinstituut B.V.

contact@liftinstituut.com

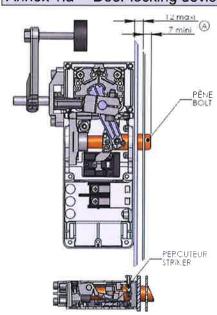
www.liftinstituut.com



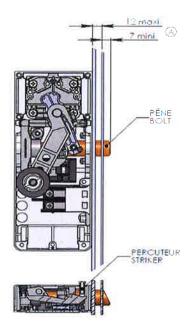


Annexes

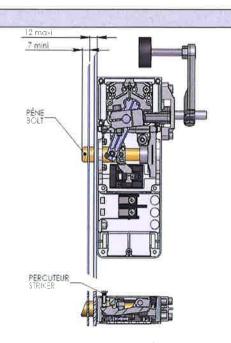
Door locking device SPX4 Annex 1.a



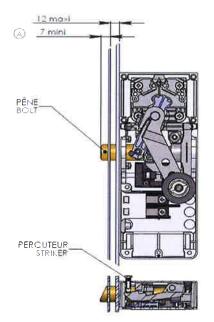
SPX4-O/PG



SPX4-O/LG



SPX4-O/PL



SPX4-O/LD

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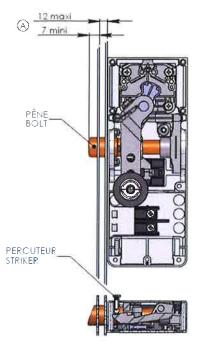
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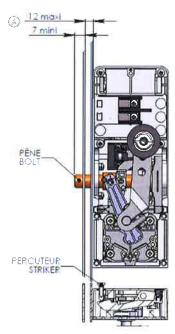
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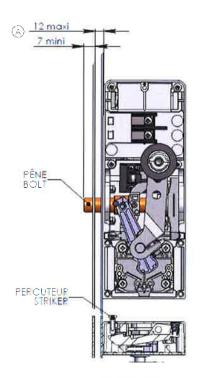




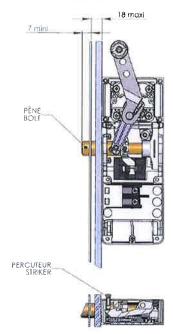
SPX4-T/L



SPX4-O/LG



SPX4-K/L



SPX4-O/LD

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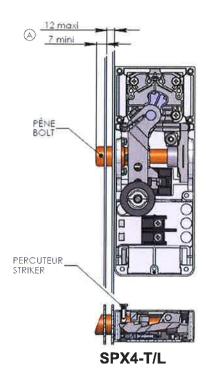
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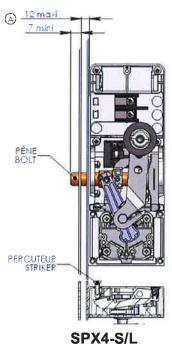
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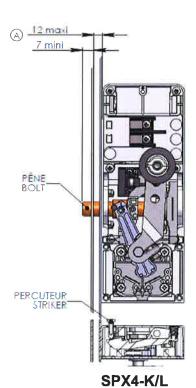
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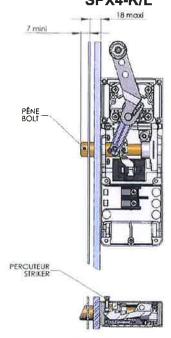












SPX4/+6

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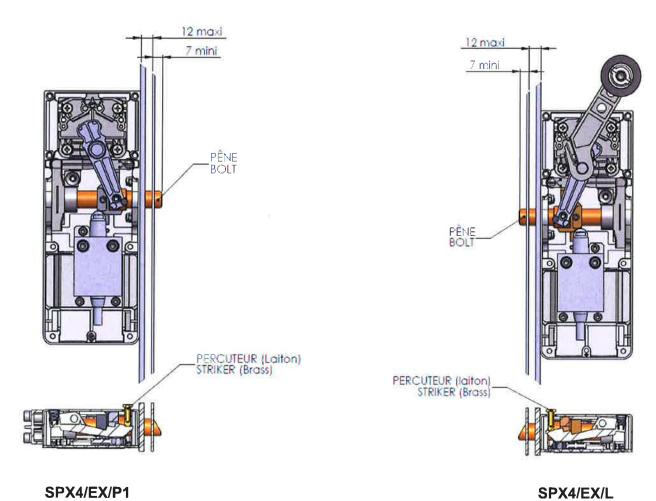
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Annex 1b. Door locking device SPX4/EX



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Documents of the Technical File which were subject of the Annex 2. examination

Title	Document number	Date
Installation manual SPX4	Version 03	13-09-2012
Drawing X4-E-001_LI-2	Rev A	27-07-2009
Drawing X4-E-015_LI-2	Rev.A	09-07-2009
Drawing X4-E-016_LI-2	Rev A	10-07-2009
Drawing X4-E-017_LI-2	Rev A	13-07-2009
Drawing X4-E-019_LI-2	Rev A	23-07-2009
Drawing X4-E-032_LI-2	Rev.A	22-07-2009
Drawing X4-E-035_LI-2	Rev A	23-07-2009
Drawing X4-E-036_LI-2	Rev A	27-07-2009
Drawing X4-E-250_LI-2	Rev	17-07-2012
Drawing X4-E-198_LI-2	Rev -	19-04-2011
Drawing X4-E-204_LI-2	Rev	01-06-2011
Drawing X4-E-208_LI-2	Rev -	23-06-2011
Drawing X4-E-212_LI-2	Rev -	23-06-2011
Installation manual SPX4/EX	Version 01	27-06-2011

Annex 3. Reviewed deviations from the standards

EN xx-x par.	Requirement	Accepted design	
X.X.X			

Annex 4. Revision of the certificate and its report

Rev.:	Date	Summary of revision
-	05-03-2010	Original
1	28-07-2010	Adding locking pin without chamfer
2	15-02-2011	Change of maximum allowable door gap
3	13-09-2012	Change of locking pin dimensions for SPX4/+6 version
4	01-08-2017	Update to EN81-20/50 and 2014/33/EU. Inserted 1002-125-03 certification.
5	16-01-2023	Certification renewal. Update the standard versions.

End of report

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