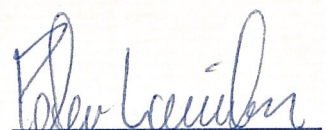




## EC-TYPE EXAMINATION CERTIFICATE

- 1.
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. EC-Type Examination Certificate Number: **ITS09ATEX26328X**
4. Equipment or Protective System: **FlexLevel Switch 4401xxx**
5. Manufacturer: **Baumer A/S**
6. Address: **Jacob Knudsens Vej 14, DK-8230 Aabyhoj, Denmark**
7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, notified body number 0359 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 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 Intertek Report Ref ETS 3572 dated 03 July 2009
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2006, EN 60079-11:2007, EN 60079-26:2007 except in respect of those requirements referred to at item 18 of the Schedule.
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 and construction 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.
12. The marking of the equipment or protective system shall include the following:-

 II 1G Ex ia IIC T5

  
**Peter T. Lauritzen**  
**Deputy Certification Officer**  
**Date: 05 August, 2009**

**Intertek Testing & Certification Limited**  
**Deeside Lane, Chester, CH1 6DD**  
**Tel: +44 (0)1244 882590 Fax: +44 (0)1244 882599**  
<http://www.intertek.com>  
**Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA**

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX26328X

15. Description of Equipment or Protective System

FlexLevel Switch 4401xxx is used for level measuring of liquids or powder. The functionality is based on the DK value of the media. The product contains a printed circuit board which contains all the electronic for the functionality. This circuit board is mounted in a plastic housing and encapsulated in Silicone gel. Terminals are placed on the outside of this plastic housing. This plastic housing is again mounted in a stainless steel AISI 316L housing (diameter 55mm). The cable connections is lead through a cable gland made of brass or plastic or through a M12 plug mounted in the stainless steel housing. The sensor is terminated internally to the screw terminals on the plastic housing.

<b>FlexLevel Switch</b>	<b>4401</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>Safety:</b>				
Standard		0		
1G (Zone 0,1,2)		1		
1D (Zone 20, 21, 22)		2		
3G (Zone 2)		3		
<b>Electrical connections:</b>				
Plug, M12			1	
Cable gland Brass M16			2	
Cable gland Polyamide M16			3	
<b>Process connection:</b>				
G1/2, PEEK tip				1
3A Hygienic connection DN38				2
G1/2, PEEK tip, sliding connection, 100mm				3
G1/2, PEEK tip, sliding connection, 250mm				4

#### Intrinsic safe specifications.

Ui: 30Vdc  
 Ii: 100mA  
 Pi: 0.75 W  
 Ci: 33nF  
 Li: 10μH

16. Report Number:

Intertek Report ETS3572 dated 03 July, 2009

**Intertek Testing & Certification Limited**  
**Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB**  
**Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977**  
<http://www.uk.intertek-etlsemko.com>  
**Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA**

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX26328X

17. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- ❖ It is essential that the media temperature is considered according to the below tables and the description in the Installation Manual provided by the manufacturer.

**FlexLevel 4401xx1/2 (G1/2, PEEK tip and 3A Hygienic connection DN38)**

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	T5
-40°C < Tamb < 60°C	95°C (*)	T5
-40°C < Tamb < 40°C	115°C (*)	T5

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

**FlexLevel 4401xx3 (G1/2, PEEK tip, sliding connection, 100mm)**

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	T5
-40°C < Tamb < 60°C	150°C (*)	T5
-40°C < Tamb < 40°C	175°C (*)	T5

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

**FlexLevel 4401xx4 (G1/2, PEEK tip, sliding connection, 250mm)**

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	T5
-40°C < Tamb < 60°C	195°C (*)	T5
-40°C < Tamb < 40°C	200°C (*)(**)	T5

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

(\*\*) Maximum allowed media/process temperature.

- ❖ FlexLevel Switch 4401xxx is to be supplied from a suitable certified zener barrier
- ❖ Programming via terminal 4 (Teach in) must only be done in safe area.

18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report ETS 3572 dated 03 July 2009

**Intertek Testing & Certification Limited**  
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**Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA**

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX26328X

19. Drawings and Documents

Document No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
5520-533	1	FlexLevel Switch 4xxx	C1	2009-11-02
5551-533	1	Assembly	D2	2009-08-25
5502-007	1	FlexLevel Switch Samlingstegning	B2	2009-06-15
5502-005	1 of 3	Instrument Drawings 1/2" Nippel	A2	2009-07-06
5502-005	2 of 3	DN38 3A Hygeenic	A2	2009-06-17
5502-005	3 of 3	Sliding connection with welding parts and seal / clamp ring	A2	2009-07-07
5502-008	1	Samling Control Unit	A2	2009-04-14
3031-049	1	Låg Ø55 mm Med lys indikatore.	B1	2009-10-22
3031-050	1	Dæksel for låg med lys. LSM	B1	2009-10-12
3011087	1	Housing Ø55	A1	2009-04-21
2008969	1	Etiket	A1	2009-07-09

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1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in  
Potentially Explosive Atmospheres Directive 94/9/EC**

3. Supplementary EC-Type Examination Certificate Number: **ITS09ATEX26328X**

4. Equipment or Protective System: **FlexLevel Switch 4401 1xx**

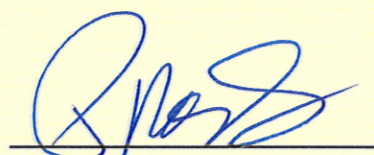
5. Manufacturer: **Baumer A/S**

6. Address: Jacob Knudsens Vej 14, DK-8230 Aabyhoj, Denmark

7. This supplementary certificate extends EC-Type Examination Certificate Number to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Report Ref 09 040594 ETS 3572

This Supplementary Certificate shall be held with the original Certificate



**P Moss**  
**Certification Officer**  
**30<sup>th</sup> July 2010**

Intertek Testing & Certification Limited  
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<http://www.intertek.com>  
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## Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX26328X

### VARIATION ONE

#### Description of the Variation to the Equipment or Protective System.

To permit the following change:

FlexLevel Switch 4401 1xx will now be known as the Level Switch LFFS 1xx and is identical in every other aspect.

<b>Level Switch</b>	<b>LFFS</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>Safety:</b>				
Standard	0			
1G (Zone 0,1,2)	1			
1D (Zone 20, 21, 22)	2			
3G (Zone 2)	3			
<b>Electrical connections:</b>				
Plug, M12			1	
Cable gland Brass M16			2	
Cable gland Polyamide M16			3	
<b>Process connection:</b>				
G1/2, PEEK tip				1
3A Hygienic connection DN38				2
G1/2, PEEK tip, sliding connection, 100mm				3
G1/2, PEEK tip, sliding connection, 250mm				4

#### Intrinsic safe specifications.

Ui: 30Vdc  
 Ii: 100mA  
 Pi: 0.75 W  
 Ci: 33nF  
 Li: 10µH

#### Report No.

Intertek Report Ref: See original Report

#### CONDITIONS OF CERTIFICATION

##### (a) Special Conditions for Safe Use:

- It is essential that the media temperature is considered according to the below tables and the description in the Installation Manual provided by the manufacturer.

##### Level Switch LFFS 1x1/2 (G1/2, PEEK tip and 3A Hygienic connection DN38)

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	T5
-40°C < Tamb < 60°C	95°C (*)	T5
-40°C < Tamb < 40°C	115°C (*)	T5

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

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## Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX26328X

### Level Switch LFFS (G1/2, PEEK tip, sliding connection, 100mm)

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	T5
-40°C < Tamb < 60°C	150°C (*)	T5
-40°C < Tamb < 40°C	175°C (*)	T5

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

### Level Switch LFFS 1x4 (G1/2, PEEK tip, sliding connection, 250mm)

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	T5
-40°C < Tamb < 60°C	195°C (*)	T5
-40°C < Tamb < 40°C	200°C (*)(**)	T5

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

(\*\*) Maximum allowed media/process temperature.

- Level Switch LFFS 4401 1xx is to be supplied from a suitable certified zener barrier
- Programming via terminal 4 (Teach in) must only be done in safe area.

### (b) Conditions for Use (Routine Tests):

See original certificate

### Essential Health and Safety Requirements

See original certificate

### DRAWINGS

Document No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
2008969	1	Etiket Level Switch LLFS 1xx Ex ia A3	B1	2010-07-27

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Tel: + 44 (0)1244 882590 Fax: +44 (0)1244 882599  
<http://www.intertek.com>

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA


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## EC-TYPE EXAMINATION CERTIFICATE

- 1.
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. EC-Type Examination Certificate Number: **ITS09ATEX16438X**
4. Equipment or Protective System: **FlexLevel Switch 4401 2xx**
5. Manufacturer: **Baumer A/S**
6. Address: **Jacob Knudsens Vej 14, DK-8230 Aabyhoj, Denmark**
7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, notified body number 0359 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 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 Intertek Report Ref ETS 3592 dated 10 September 2009
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 61241-0: 2006, EN 61241-1: 2004 except in respect of those requirements referred to at item 18 of the Schedule.
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 and construction 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.
12. The marking of the equipment or protective system shall include the following:-

 II 1D Ex tD A20 IP67 100°C



**Peter T. Lauritzen**  
Deputy Certification Officer  
Date: 30-09-2009

**Intertek Testing & Certification Limited**  
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB  
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977  
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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX16438X

15. Description of Equipment or Protective System

FlexLevel Switch 4401xxx is used for level measuring of liquids or powder. The functionality is based on the DK value of the media. The product contains a printed circuit board which contains all the electronic for the functionality. This circuit board is mounted in a plastic housing and encapsulated in Silicone gel. Terminals are placed on the outside of this plastic housing. This plastic housing is again mounted in a stainless steel AISI 316L housing (diameter 55mm). The cable connections is lead through a cable gland made of brass or plastic or through a M12 plug mounted in the stainless steel housing. The sensor is terminated internally to the screw terminals on the plastic housing.

**FlexLevel Switch**

**4401 x x x**

**Safety:**

Standard

0

1G (Zone 0,1,2)

1

1D (Zone 20, 21, 22)

2

3G (Zone 2)

3

**Electrical connections:**

Plug, M12

1

Cable gland Brass M16

2

Cable gland Polyamide M16

3

**Process connection:**

G1/2, PEEK tip

1

3A Hygienic connection DN38

2

G1/2, PEEK tip, sliding connection, 100mm

3

G1/2, PEEK tip, sliding connection, 250mm

4

**Input specifications.**

Ui: 30Vdc

Ii: 100mA

16. Report Number:

Intertek Report ETS3592 dated 10 September, 2009

**Intertek Testing & Certification Limited**  
**Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB**  
**Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977**

<http://www.intertek.com>

**Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA**

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX16438X

17. CONDITIONS OF CERTIFICATION:

- (a). Special Conditions for safe use

It is essential that the media temperature is considered according to the below tables and the description in the Installation Manual provide by the manufacturer.

**FlexLevel 4401 2x1/2 (G1/2, PEEK tip and 3A Hygienic connection DN38)**

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	100 °C
-40°C < Tamb < 60°C	95°C (*)	100 °C
-40°C < Tamb < 40°C	115°C (*)	100 °C

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

**FlexLevel 4401 2x3 (G1/2, PEEK tip, sliding connection, cooling neck, 100mm)**

Ambient temperature	Maximum media temperature	T-Class
-40°C < Tamb < 85°C	85°C	100 °C
-40°C < Tamb < 60°C	150°C (*)	100 °C
-40°C < Tamb < 40°C	175°C (*)	100 °C

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

**FlexLevel 4401 2x4 (G1/2, PEEK tip, sliding connection, cooling neck, 250mm)**

Ambient temperature	Maximum media temperature	T-Class
-40°C < Tamb < 85°C	85°C	100 °C
-40°C < Tamb < 60°C	195°C (*)	100 °C
-40°C < Tamb < 40°C	200°C (*)(**)	100 °C

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

(\*\*) Maximum allowed media/process temperature.

The following warning must be present on the marking plate:

"DO NOT OPEN WHEN AN EXPLOSIVE DUST ATMOSPHERE IS PRESENT"

- (b). Conditions For Use (Routine Tests)

18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report ETS 3592 dated 10 September 2009.

Intertek Testing & Certification Limited  
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Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

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13. SCHEDULE
14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS09ATEX16438X
19. Drawings and Documents

Document No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
5520-533	1	FlexLevel Switch 4xxx	C1	2009-11-02
5551-533	1	Assembly	D2	2009-08-25
5502-007	1	FlexLevel Switch Samlingstegning	B2	2009-06-15
5502-005	1 of 3	Instrument Drawings ½" Nippel	A2	2009-07-06
5502-005	2 of 3	DN38 3A Hygeenic	A2	2009-06-17
5502-005	3 of 3	Sliding connection with welding parts and seal / clamp ring	A2	2009-07-07
5502-008	1	Samling Control Unit	A2	2009-04-14
3031-049	1	Låg Ø55 mm Med lys indikatore.	B1	2009-10-22
3031-050	1	Dæksel for låg med lys. LSM	B1	2009-10-12
3011087	1	Housing Ø55	A1	2009-04-21
2008970	1	Etiket FlexLevel Switch 4401 2xx Ex Dust	A1	2009-08-25

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**Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB**  
**Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977**

<http://www.intertek.com>

Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

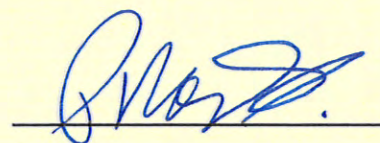
This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification Conditions for Granting Certification.



1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: **ITS09ATEX16438X**
4. Equipment or Protective System: **FlexLevel Switch 4401 2xx**
5. Manufacturer: **Baumer A/S**
6. Address: **Jacob Knudsens Vej 14, DK-8230 Aabyhoj, Denmark**
7. This supplementary certificate extends EC-Type Examination Certificate Number to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Report Ref 09 041750 ETS 3592

This Supplementary Certificate shall be held with the original Certificate

  
**P Moss**  
**Certification Officer**  
**30<sup>th</sup> July 2010**

Intertek Testing & Certification Limited  
Deeside Lane, Chester, CH1 6DD.  
Tel: + 44 (0)1244 882590 Fax: +44 (0)1244 882599  
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Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

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## Schedule

**SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX16438X-V1**

### VARIATION ONE

**Description of the Variation to the Equipment or Protective System.**

To permit the following change:

FlexLevel Switch 4401 2xx will now be known as the Level Switch LFFS 2xx and is identical in every other aspect.

Level Switch	LFFS	x	x	x
<b>Safety:</b>				
Standard		0		
1G (Zone 0,1,2)		1		
1D (Zone 20, 21, 22)		2		
3G (Zone 2)		3		
<b>Electrical connections:</b>				
Plug, M12			1	
Cable gland Brass M16			2	
Cable gland Polyamide M16			3	
<b>Process connection:</b>				
G1/2, PEEK tip				1
3A Hygienic connection DN38				2
G1/2, PEEK tip, sliding connection, 100mm				3
G1/2, PEEK tip, sliding connection, 250mm				4

### Report No.

Intertek Report Ref: See original Report

### CONDITIONS OF CERTIFICATION

(a) Special Conditions for Safe Use:

#### Level Switch LFFS 2x1/2 (G1/2, PEEK tip and 3A Hygienic connection DN38)

Ambient temperature	Maximum media/process temperature	T-Class
-40°C < Tamb < 85°C	85°C	100 °C
-40°C < Tamb < 60°C	95°C (*)	100 °C
-40°C < Tamb < 40°C	115°C (*)	100 °C

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

#### Level Switch LFFS 2x3 (G1/2, PEEK tip, sliding connection, cooling neck, 100mm)

Ambient temperature	Maximum media temperature	T-Class
-40°C < Tamb < 85°C	85°C	100 °C
-40°C < Tamb < 60°C	150°C (*)	100 °C
-40°C < Tamb < 40°C	175°C (*)	100 °C

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

**Intertek Testing & Certification Limited**

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## Schedule

**SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS09ATEX16438X-V1**

**Level Switch LFFS 2x4 (G1/2, PEEK tip, sliding connection, cooling neck, 250mm)**

Ambient temperature	Maximum media temperature	T-Class
-40°C < Tamb < 85°C	85°C	100 °C
-40°C < Tamb < 60°C	195°C (*)	100 °C
-40°C < Tamb < 40°C	200°C (**)(**)	100 °C

(\*) provided that the sensor tip at the sliding connection is the only part in contact with the media

(\*\*) Maximum allowed media/process temperature.

The following warning must be present on the marking plate:

"DO NOT OPEN WHEN AN EXPLOSIVE DUST ATMOSPHERE IS PRESENT"

(b) Conditions for Use (Routine Tests):

See original certificate

### Essential Health and Safety Requirements

See original certificate

### DRAWINGS

Document No.	Sheets	Document Title	Issue	Date (yyyy/mm/dd)
2008970	1	Etiket Level Switch LLFS 2xx Ex Dust A3	B1	2010-07-27

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