



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2022012315464846

Valid from: Apr.24,2022

Valid until: Apr.23,2027

**NAME AND REGISTERED
ADDRESS OF THE APPLICANT**

Baumer (China) Co.Ltd.
Building 11, Nr.1525 Minqiang Road,Songjiang Industry Park,Shanghai,P.R.China 201612

**NAME AND REGISTERED
ADDRESS OF THE
MANUFACTURER**

Baumer A/S
Runetofte 19,DK-8210 Aarhus V

**NAME AND LOCATION
OF THE FACTORY**

Baumer A/S
Runetofte 19,DK-8210 Aarhus V

PRODUCT MODEL(S)

Material sensor
Type of Product : LBFS-6□□□□□□; Marking : Ex ia IIC T5/T4 Ga ; Ex tD A20 IP67 T100°C; The model definition , electrical parameters and related document numbers can be seen in the appendix.

**STANDARDS AND
TECHNICAL REQUIREMENTS**

GB 12476.1-2013;GB 12476.5-2013;GB 3836.1-2010;GB 3836.4-2010

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C23-01:2019)

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn



SIGNATURE:

谢肇煦



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paper:

This certificate and attachments shall be used at the same time, and the verification instructions can be found in the main certificate.

1. General assembly drawing : 81081870.05;

2. Maximum working voltage : 30V , **Maximum working current :** 100mA;

3. Operating ambient temperature :

-40°C ≤ Ta ≤ +74°C: T5、T100°C ; -40°C ≤ Ta ≤ +85°C: T4、T100°C;

-25°C ≤ Ta ≤ +70°C: T5/T4 (With 5m cable);

4. Specific conditions of use :

4.1 If the product needs to be equipped with M12 plug, the protection grade of the plug and socket shall be at least IP67.

4.2 The cable length is more than 5m, with higher internal inductance and capacitance. These values must be taken into account during installation, according to Ci : 43nF+0.17nF/m Li : 10uH+0.27uF/m.

4.3 The user manual must be observed when using this product.

4.4 After the thread of the product shell is connected with the metal mounting frame, the overall grounding shall be ensured.

5. The Type Explanation :

LBFS -6 XXXX. X

LBFS stands for level sensor ;

"6" means the conformity of explosion protection of CCC ia + tD

The 1st x represents electrical connection:

"1 " means M12-A, 4-pin, polycarbonate (with LED)

"2 " means Cable outlet 5 m, 4-wire, PVC

"3 " means M12-A, 4-pin, stainless steel (without LED)

The 2nd x represents Process connection:

"1 " =G1/2A ISO228-1

"2 " =G3/4A ISO228-1

"3 " =G1A ISO228-1

"4 " =G 1/2 A hygienic ISO228-1

"5 " =G 1/2 A ISO 228-1 for reverse assembly (in-shell thread)

"6 " =3/4-14 NPT

"7 " =M18x1

"A" =G 1/2 A DIN 3852 form E, NBR gasket

"B" =G 1/2 A DIN 3852 form E, FKM (Viton®) gasket

"G" =G 1/2 A ISO 228-1 with cooling neck



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"J" =G 1/2 A hygienic gasket, FKM (Viton®), with cooling neck

"K" =G 1/2 A hygienic, length 82 mm

"L" =G 1/2 A hygienic, sliding connection,length 250 mm

"N" =1/2-14 NPT

"M" =1/2-14 NPT with cooling neck

"E" =G 1/2 A DIN 3852 form E, FKM (Viton®) gasket,with cooling neck

The 3rd x represents the housing material:

"1" means Stainless Steel 1.4301 - AISI 304

"2" means Stainless Steel 1.4404 - AISI 316L

The 4th x represents Output signal type: :

"1" =PNP

"2" =NPN

The 5th x represents configuration

"0" =Factory settings

"C" =Customer-specific

6. The product structure shall be subjected to the drawings approved by the certification body.



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- 1.总装配图纸号: 81081870.05;
2. 工作电压: 最大 30V, 工作电流: 最大 100mA;
- 3.本安参数: U_i : 30V, I_i : 100mA, P_i : 750mW, C_i : 43nF, L_i : 10uH/ C_i : 43nF+0.17nF/m, L_i : 10uH+0.27uF/m (5m 电缆);
- 4.型号解释:
LBFS -6□□□□. □
1 2 3 4 5 6 7
1: LBFS 代表物料传感器
2: “ 6 ” 表示符合 CCC 气体本安防爆(ia)和粉尘外壳保护型防爆(tD)
3: 电气连接:
1 表示 M12 的接口材质是塑料的, 并且带 LED 显示。
2 表示 5 米电缆, 4 芯, PVC 外套
3 表示 M12 的接口材质是不锈钢的, 并且不带 LED 显示。
4: 过程接口的类型;
1 表示 G1/2A ISO228-1 外螺纹
2 表示 G3/4A ISO228-1 外螺纹
3 表示 G1 ISO228-1 外螺纹
4 表示 G1/2A 卫生型外螺纹
5 表示 G1/2A ISO228-1 反装外螺纹
6 表示 3/4-14 NPT 外螺纹
7 表示 M18x1 外螺纹



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This certificate and attachments shall be used at the same time, and the verification instructions can be found in the main certificate.

A 表示 G1/2A DIN3852 E, NBR 密封圈

B 表示 G1/2A DIN3852 E, FKM 密封圈

G 表示 G1/2A ISO228-1 外螺纹, 带散热片

J 表示 G1/2A 卫生型外螺纹, 带散热片

K 表示 G1/2A 卫生型外螺纹, 加长 82mm

L 表示 G1/2A 卫生型外螺纹, 加长 250mm

N 表示 1/2-14 NPT 外螺纹

M 表示 1/2-14 NPT 外螺纹, 带散热片

E 表示 G1/2A DIN3852 E, FKM 密封圈, 带散热片

5: 过程接口的材质:

1 表示外壳材质 304 不锈钢。

2 表示外壳材质 316L 不锈钢。

6: 输出信号类型:

1=PNP 输出

2=NPN 输出

7: 参数设置:

0=参数按照出厂默认的设置

C=参数按照客户要求的设置

5.使用环境温度: $-40^{\circ}\text{C} \leq T_a \leq +74^{\circ}\text{C}$ 时 T5 组别、 $T100^{\circ}\text{C}$; $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ 时 T4 组别、 $T100^{\circ}\text{C}$;

$-25^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ 时 T5、T4 组别 (带 5m 电缆);

6.特殊使用条件:

6.1 本产品若需配装 M12 的插头, 插头与插座配合后防护等级不低于 IP67。

6.2 电缆长度超过 5 米, 具有更高的内部电感和电容; 在安装过程中必须考虑这些值, 具体依据 $C_i: 43\text{nF} + 0.17\text{nF/m}$ $L_i: 10\mu\text{H} + 0.27\mu\text{F/m}$ 要求。

6.3 产品使用必须遵守用户手册。

6.4 产品外壳螺纹和金属安装机架连接后, 应保证整体接地。

7.产品结构以认证机构批准的图纸为准。



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