



ATEX ABSOLUTE SINGLE TURN PARALLEL ENCODER, CAMX RANGE

ATEX certified Explosion-proof encoders according to Directive 94/9/CE

Explosion-proof rotary encoders for hazardous environments gas & dust
Robust design for heavy-duty applications
Application fields: explosive atmospheres except for firedamp mines

EC type examination certificate
Download from our website www.bei-ideacod.com
LCIE 03 ATEX 6235/02
CE0081
II 2 G/D
Ex d IIC T6, T5 or T4
Ex tD A21 IP6X T80°C T95°C T100°C



CAMX_12 T3A connection (axial cable gland)

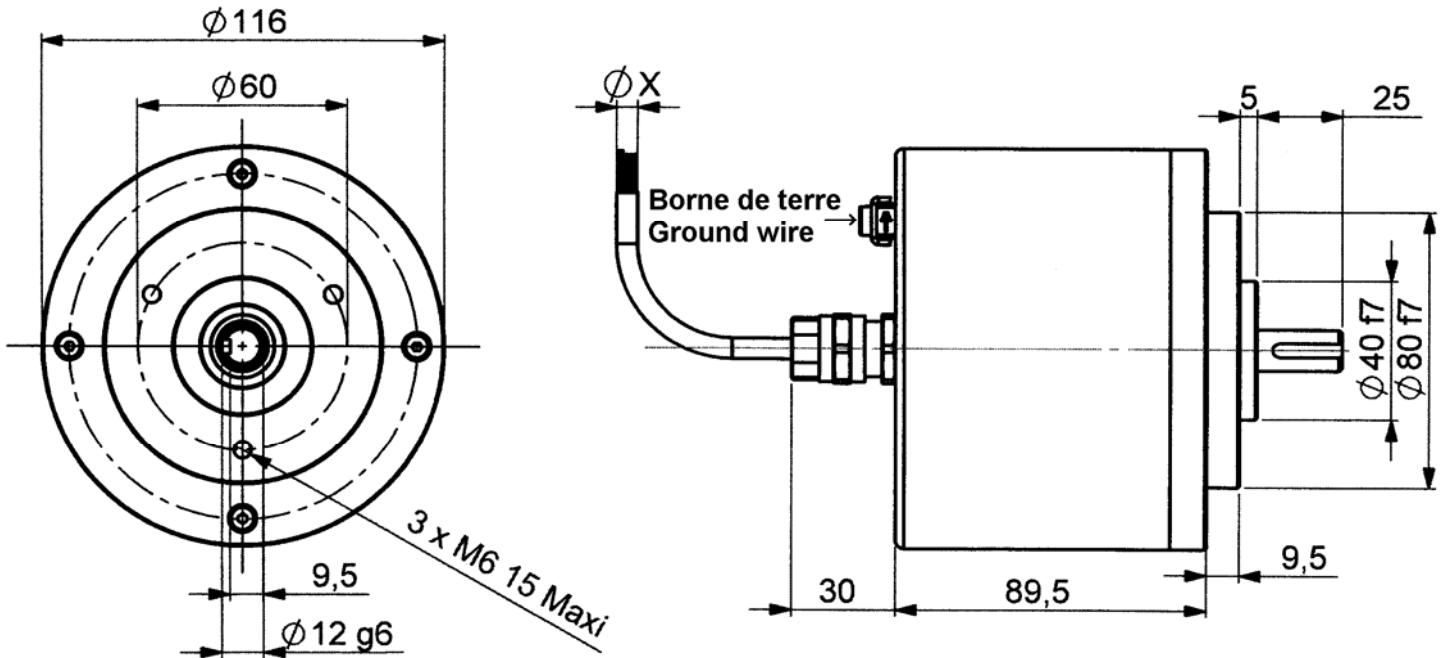


Table with 2 columns: Property and Value. Rows include Material (Cover: aluminium, Stainless steel option; Body: aluminium), Shaft (Stainless steel), Bearings (6001 serie), Maxiamal load (Axial: 50 N, Radial: 100 N), Shaft inertia, Torque, Permissible max.speed, Continuous max. speed, and Shaft seal (Viton).

Table with 2 columns: Property and Value. Rows include Shock, Vibration, CEM, Isolation, Weight (3,5kg aluminium body and cover, 7,2kg stainless steel body and cover), Operating temperature, Storage temperature, Protection, and Theoretical mechanical lifetime 10^9 turns (F_axial / F_radial).

Table with 3 columns: Tamb, Temperature class for gas atmosphere, and Temperature class for dust atmosphere. Rows show temperature ranges and corresponding classes (T6, T5, T4 and T80°C, T95°C, T100°C).

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RACCORDEMENT

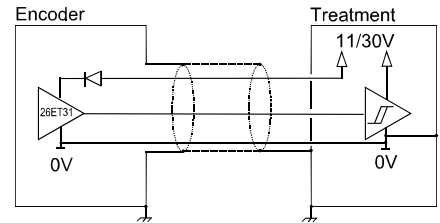
2 ⁰	GN green
2 ¹	YE yellow
2 ²	GY grey
2 ³	OG orange
2 ⁴	BU blue
2 ⁵	RD red
2 ⁶	BK black
2 ⁷	VT violet
2 ⁸	WH/BN white/brown
2 ⁹	WH/GN white/green
2 ¹⁰	WH/YE white/yellow
2 ¹¹	WH/BK white/black
2 ¹²	WH/OG white/orange
-	WH white
+	BN brown
Ground/body	General shield

DIRECTION	WH/RD blanc/rouge
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POWER SUPPLY/ OUTPUT STAGES

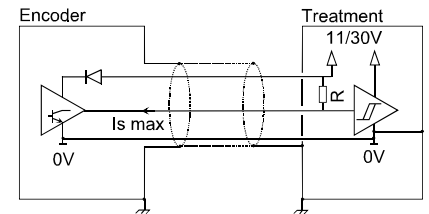
5C5 electronic : Push-pull 11/30Vdc

Power supply : 11 to 30Vdc
 Consumption without load : 100mA max
 Intensity per channel : $I_s = 20\text{mA max}$
 0 max ($I_s=20\text{mA}$): $V_{ol} = 0,5\text{Vdc}$
 1 min ($I_s=20\text{mA}$): $V_{oh} = V_{cc}-3\text{Vdc}$
 Protection against short circuits
 Protection against inversion of polarity



5CN electronic : NPN CO 11 to 30Vdc

Power supply: 11 to 30Vdc
 Consumption without load : 100mA max
 Intensity per channel : $I_s = 20\text{mA max}$
 0 max ($I_s=20\text{mA}$): $V_{ol} = 1,25\text{Vdc}$
 Protection against inversion of polarity



10 bits encoder example : only MSB (D3 to D12) will be connected

DIRECTION entry :

- Code direction CW : connect White/Red with Brown
- Code direction CCW : connect White/Red with White

ORDERING CODE

	Shaft Ø	Parallel output : 5C5, 5CN		Code	Resolution	Connection	Orientation connection
CAMX (aluminium)	12 :12mm	5: 11 – 30Vdc	C5: Push-Pull 11-30Vdc	B : binaire	13	T3 : cable gland + PVC cable	Ex. cable : A030 : cable 3m axial
CEMX (stainless steel)			CN: NPNCO 11-30Vdc	G : Gray	1		
Ex: CEMX	_ 12 //	5	C5	G //	13 //	T3	A030

ASSEMBLY CAUTION

NEVER OPEN THE ENCODER

NEVER CONNECT/DISCONNECT UNDER POWER SUPPLY/IN PRESENCE OF DUSTS ATMOSPHERE

The customer obliges to take up and to use our products, according to our specifications and to the manners of the profession. Our company would not be responsible for any defect resulting from a defective or erroneous assembly. From a use superior to the standard, or in abnormal conditions. The breakdowns resultant of shocks, bad electric supply, put in low capacity or overcapacity of the product, the environment of bad conditions (humidity, projection, dust, etc) cannot be imputed to us. The converter doesn't require any maintenance. Any encoder presenting a dysfunction will have to be the object of immediate return for control in our facilities. The encoder mustn't be open in any case (cable gland and/or cover)
 An earth situated on the cover must be linked with the ground of the installation

Made in FRANCE



ATEX ABSOLUTE SINGLE TURN PARALLEL ENCODER, CAMX RANGE

1) Déclaration de conformité CE

2) Nous, société BEI-IDEACOD, certifions que ce matériel : capteurs antidéflagrants, type GAMX, CAMX, NAMX, GEMX, CEMX, NEMX

3) Avec les inscriptions suivantes :

CE 0081 II 2 G/D, Ex d II C T6, T5 or T4 Ex tD A21 IP6X T80°C T95°C T100°C

A été conçu et fabriqué conformément à la directive applicable suivante :

ATEX directive 94/9/CE Directive CEM 89/336/CEE

4) La certification a été obtenu grâce à l'application des normes suivantes :

EN 60079-0 (2006), EN 60079-1 (2004), EN 61241-0 (2004) et EN 61241-1 (2004)

5) Une attestation d'examen CE de type a été obtenu :

LCIE 03 ATEX 6235/02 et une notification : LCIE 03 ATEX Q8060

6) L'application des normes suivantes a participé à l'obtention de la certification :

EN 60-529, NFC 23-520, NFC 23-539, EN 50081-1, EN 55022 classe B, EN 55014, EN 61000-6-2, CEI 61000-4-2, CEI 61000-4-3, CEI61000-4-4, CEI 61000-4-5, CEI 61000-4-6, CEI 61000-4-8, CEI 61000-4-11

7) L'organisme notifié responsable du suivi de la directive ATEX est le

LCIE,B.P.8, F92260 Fontenay-aux-Roses Numéro d'identification : 0081

8) La société chargée de la certification CEM est nommée ci-après :

GRME, Cellule CEM, B.P.8, 68840 Pulversheim

9) Nous certifions que nos produits désignés ci-dessus sont conformes à la directive et aux normes spécifiées

Date :

1) Declaration of conformity EC

2) Us, BEI-IDEACOD, let us certify that this material : sensor explosion-proof standard GAMX, CAMX, NAMX, GEMX, CEMX, NEMX

3) With the following inscriptions :

CE 0081 II 2 G/D, EEx d II C T6, T5 or T4 Ex tD A21 IP6X T80°C T95°C T100°C

Conceived and manufactured has the directive applicable following :

ATEX directive 94/9/CE Directive CEM 89/336/CEE

4) Certification to summer obtained thanks to the application of the standards :

EN 60079-0 (2006), EN 60079-1 (2004), EN 61241-0 (2004) and EN 61241-1 (2004)

5) EC type examination certificate was obtained :

LCIE 03 ATEX 6235/02 and a notification : LCIE 03 ATEX Q8060

6) The application of the following standards took part in obtaining certification :

EN 60-529, NFC 23-520, NFC 23-539, EN 50081-1, EN 55022 classe B, EN 55014, EN 61000-6-2, CEI 61000-4-2, CEI 61000-4-3, CEI61000-4-4, CEI 61000-4-5, CEI 61000-4-6, CEI 61000-4-8, CEI 61000-4-11

7) The notified organization responsible for the follow-up of the directive ATEX is the

LCIE,B.P.8, F92260 Fontenay-aux-Roses Numéro d'identification : 0081

8) The company in charge of certification CEM is named :

GRME, Cellule CEM, B.P.8, 68840 Pulversheim

9) We certify that our indicated products so above are in conformity with the directive and the specified standards

Dominique MALLET Directeur Général