



Features:

- Profibus encoder Ø30mm through shaft version
- PEEK or aluminum reduction hubs available : 10 to 28mm
- Robustness and excellent resistance to shocks / vibrations

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- Double or triple mounting possibility (incremental tacho or absolute interfaces)
- High protection level IP65
- High performances in temperature -20°C to +80°C
- 5 to 30 Vdc power supply
- High resolution available: 8 192 points par revolution (13 bits resolution)
- Turns numerisation up to 65 536 (16 bits)
- DPV0, Class 2, encoder profile 3.062
- PHU9 also available with SSI, programmable SSI, RS232 & CANopen interface

V	D.	

SPECIFICATIONS

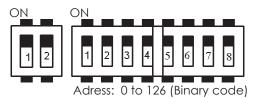
	Cover : steel
Material	Body : aluminum
	Shaft : stainless steel
Bearings	6 807 serie
Maximum load	Axial : 50 N
	Radial : 80 N
Shaft inertia	$\leq 55.10^{-6} \text{kg.m}^2$
Torque	$\leq 25.10^{-3}$ N.m
Permissible max. speed	6 000 min ⁻¹
Continuous max. speed	3 600 min ⁻¹
Shaft Seal	Viton
Shock (EN60068-2-27)	\leq 500 m.s ⁻² (during 6 ms)
Vibration (EN60068-2-6)	$\leq 100 \text{ m.s}^{-2} (10 \dots 2 \ 000 \text{ Hz})$
EMC	EN 61000-6-4, EN 61000-6-2
Isolation	500V (1 min.)
Weight (approx.)	1,200 kg
Operating temperature	- 20 + 80 °C (encoder T°)
Storage temperature	- 20 + 80 °C
Protection(EN 60529)	IP 65
Torque (ring pressure screw)	nominal: 3N.m, break: 4N.m
Theoretical mechanical lifetime 10° turns (F axial / F	radial)
25 N / 40 N : 140	50 N / 80 N : 17







Power supply : 5-30V Consumption <200 mA (160mA typ) Transmission frequency : From 9.6Kbaud to 12Mbaud Electronic interface : Opto-isolated RS 485 Address : Permits the addressing of each encoder in an installation (32 master stations or slaves stations per segment without repetition, 127 maximum with repetition)



End line resistance termination: 1, 2 "ON" (Beginning or end line)

Switch -		2	3	4	5	6	7
on "ON" =	1	2	4	8	16	32	64

Switch 8 on "OFF".

Example: Address 5: Switch 1 & 3 on "ON", others on "OFF".



PARAMETERS PROGRAMMABLES

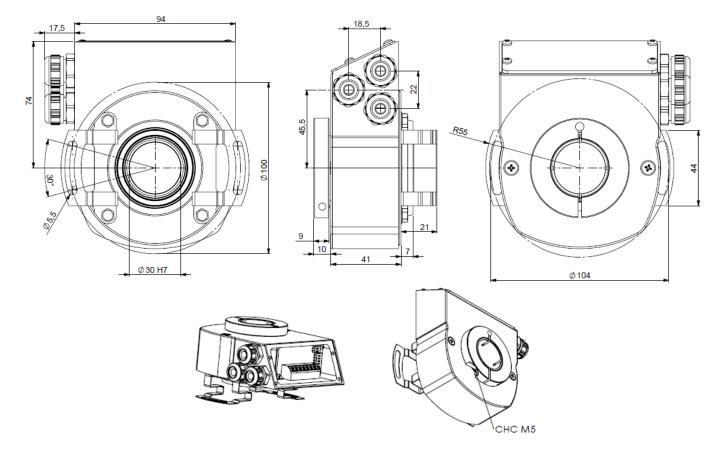
Direction : Permits the definition of the counting direction of the encoder (CW or CCW) following its mechanical position **Resolution :** The number or points per turn can be between 0 and 8192 **Global resolution (MAX RANGE) :** Total number of codes of the encoder (2 to 536 870 912) **Reset :** Defines the value of its actual position **Time base :** Defines the base time for the speed calculation (10 ms , 100 ms, 1 s, speed in rpm)



Integrated terminal box on encoder - "push-in" connection - max 1,5mm².



PHU9 Profibus connection BTR (Terminal box) - with DACs 9445/009* mounted on bearings housing



* : accessory to be ordered separately.



PHU9 _ 30	//	Р	BG	В	//	13 B	16 //	BT	R
Model									
PHU9 Codeur embase alu PBU9 Codeur embase inox									
Shaft Ø									
30 : 30mm 10 to 28mm reduction hub available									
Supply									
P : 5 to 30Vdc									
Interface									
BG : Profibus									
Code									
B: Binary									
Resolution									
13 : 8192 points per turn (2 ¹³)									
Turns Nb									
B16 : 65 536 turns (2 ¹⁶)									
Connection									
BT Terminal Box									
Connection Orientation									
R : Radial									

AGENCYAPPROVALS&CERTIFICATES

PROFI

Made In France

Page 4

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