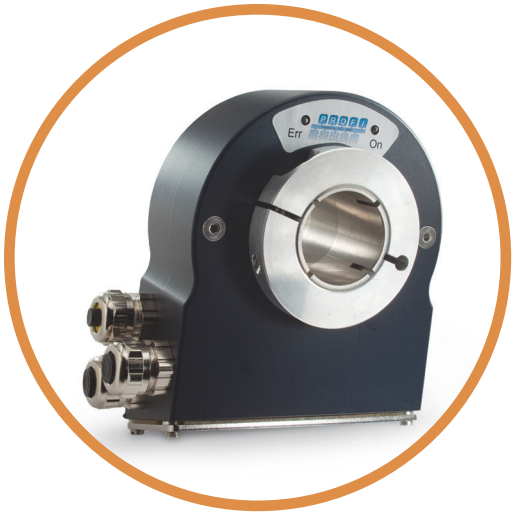
PHU9

ABSOLUTE MULTI-TURN ENCODER, PROFIBUS INTERFACE, PHU9 SERIE



Features:

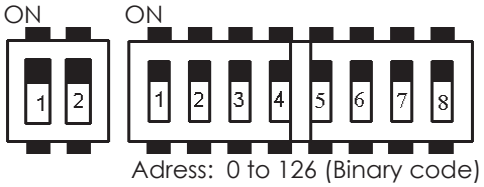
- Profibus encoder - Ø30mm through shaft version
- PEEK or aluminum reduction hubs available : 10 to 28mm
- Robustness and excellent resistance to shocks / vibrations
- Double or triple mounting possibility (incremental – tacho or absolute interfaces)
- High protection level IP65
- High performances 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

SPECIFICATIONS

Material	Cover : steel
	Body : aluminum
	Shaft : stainless steel
Bearings	6 807 serie
Maximum load	Axial : 50 N
	Radial : 80 N
Shaft inertia	$\leq 55.10^{-6}$ 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 m.s^{-2} (10 … 2 000 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 10^9 turns (F axial / F radial)	
25 N / 40 N : 140	50 N / 80 N : 17

GENERALITY

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

Switch 8 on "OFF".
Example: Address 5: Switch 1 & 3 on "ON", others on "OFF".

PARAMETERS PROGRAMMABLES

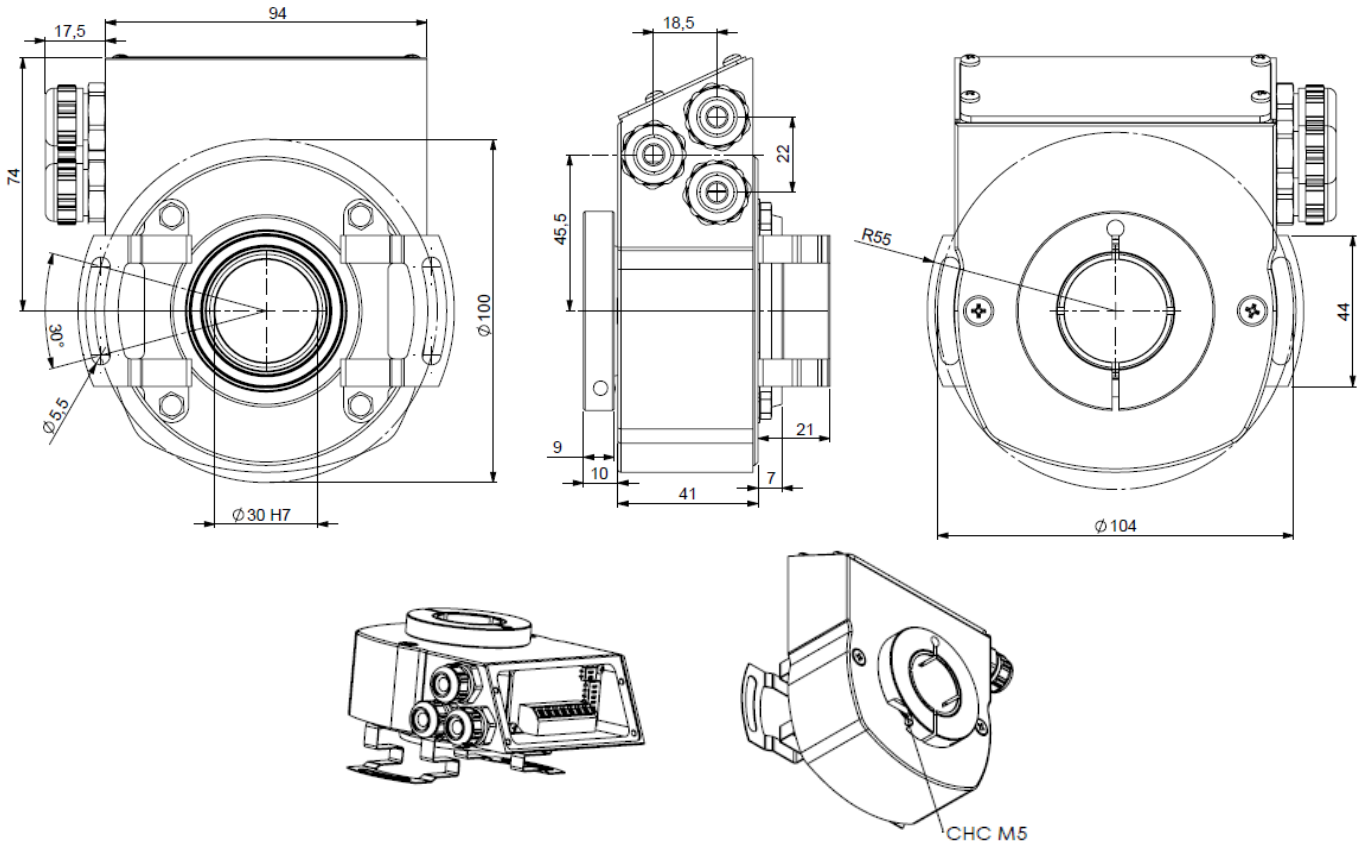
Direction : Permits the definition of the counting direction of the encoder (CW or CCW) following its mechanical position
Resolution : The number or points per turn can be between 0 and 8192
Global resolution (MAX RANGE) : Total number of codes of the encoder (2 to 536 870 912)
Reset : Defines the value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

CONNECTION

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

DIMENSIONS

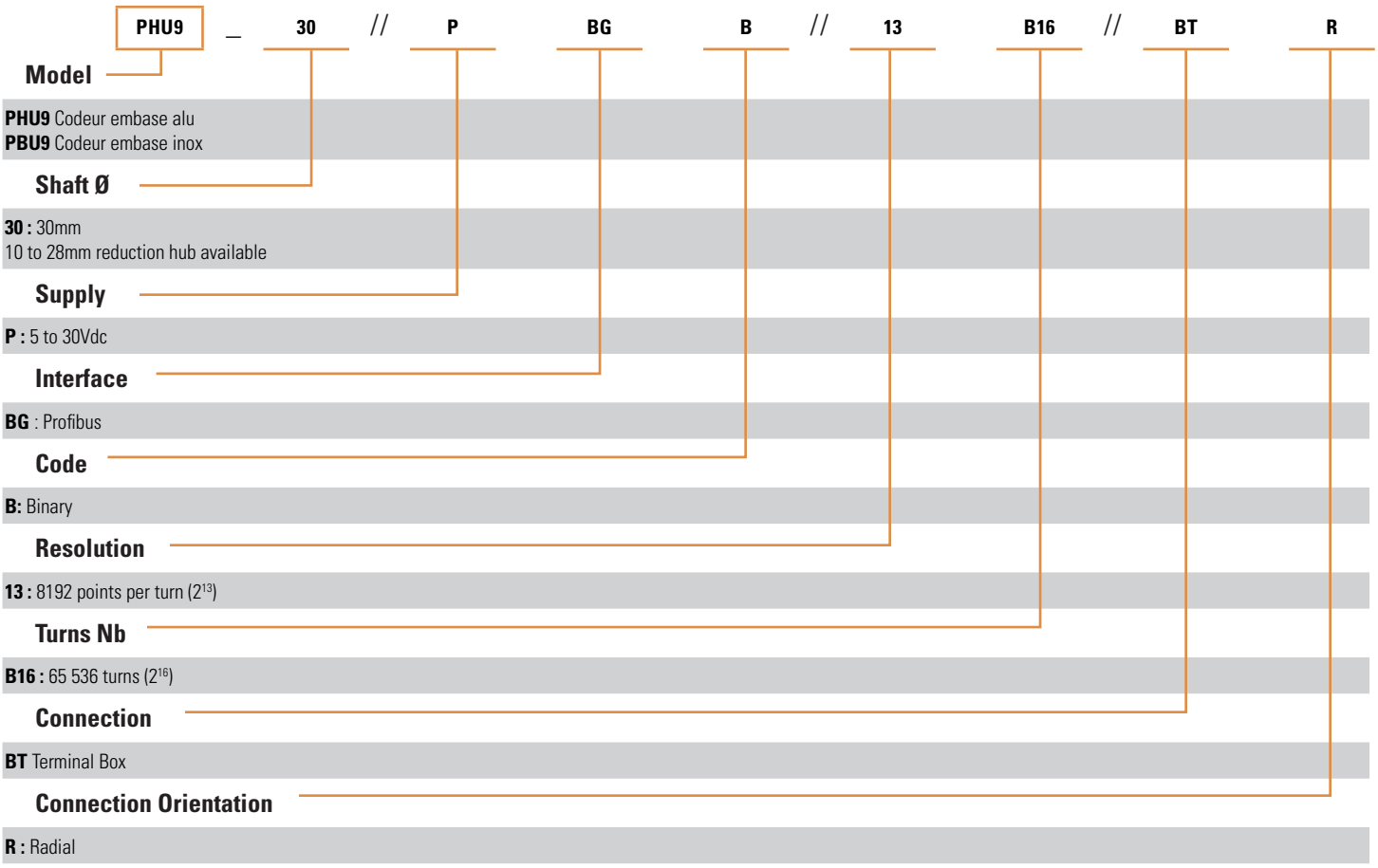
PHU9 Profibus connection BTR (Terminal box) - with DACs 9445/009* mounted on bearings housing



* : accessory to be ordered separately.

ORDERING OPTIONS

Example : PHU9 _30 //PBGB//13B16//BTR



AGENCY APPROVALS & CERTIFICATES

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