

**PROFIBUS ABSOLUTE MULTITURN ENCODERS, SHU9 RANGE**



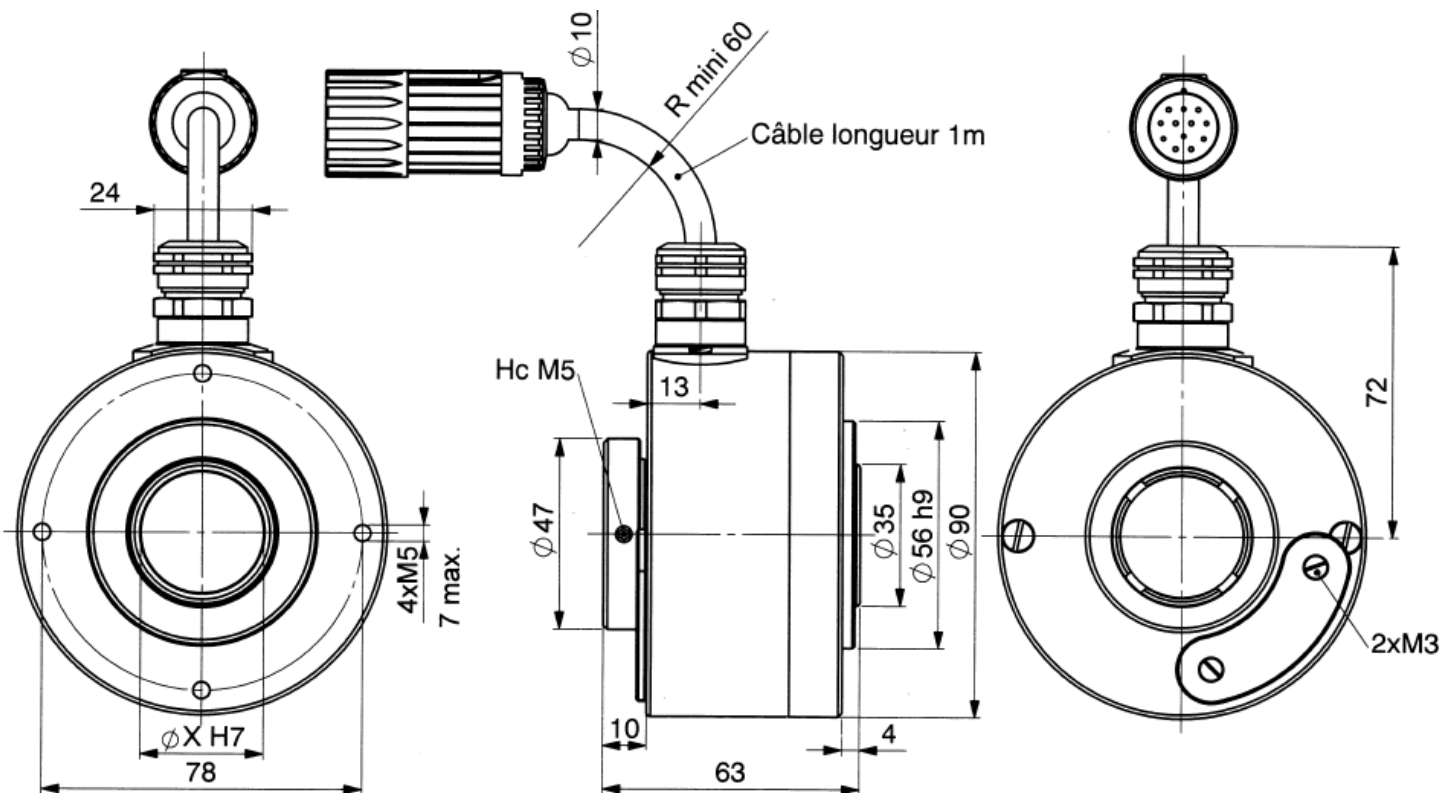
Especially designed for Heavy Duty Industry (steel, paper, wood – mills, cranes...). Compact and robust conception. Excellent resistance to shocks/vibrations and to extreme axial/radial loads

Adaptation with reduction hubs in aluminium or in PEEK composite

Possibility of double or triple mounting in associating incremental, absolute and tachymetric functions



Also available in SSI and fieldbus interfaces : CanOpen and DeviceNet



Material (Stainless steel option)	Cover : zinc alloy	Vibration (EN60068-2-6)	≤ 100 m.s <sup>-2</sup> (10 ... 500 Hz)
	Body: aluminium		EMC
Shaft	Stainless steel	Isolation	1 000 V eff
Bearings	6807 serie	Encoder weight (approx.)	0,900kg zinc alloy cover, alu body
Maximal loads	Axial : 50 N		1,100kg zinc alloy cover, stainless steel body
	Radial : 80 N		1,200kg stainless steel body & cover
Shaft inertia	≤ 56.10 <sup>-6</sup> kg.m <sup>2</sup>	Operating temperature	- 10... + 70 °C (encoder T°)
Torque	≤ 25.10 <sup>-3</sup> N.m	Storage temperature	- 10... + 70 °C
Permissible max. speed	6 000 min <sup>-1</sup>	Protection(EN 60529)	IP 65
Continuous max speed	3 600 min <sup>-1</sup>	Torque (ring screw)	nominal: N.m, break: N.m
Shaft seal	P.T.F.E	Theoretical mechanical lifetime 10 <sup>9</sup> turns (F <sub>axial</sub> / F <sub>radial</sub> )	
Shocks (EN60068-2-27)	≤ 300 m.s <sup>-2</sup> (during 6 ms)	25 N / 40 N: 140	50 N / 80 N : 17

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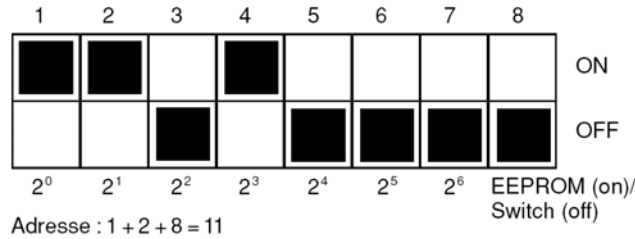
**General**

**Transmission frequency:** from 9.6Kbaud to 12Mbaud

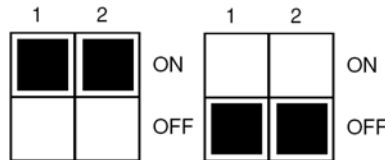
**Electronic interface:** RS 485 opto-isolated

**Address :** permits the addressing of each encoder in an installation (32 master stations or slaves stations per segment without repetitor, 127 maximum with repetitor)

The 8 switch permits to chose the addressing per deep switch (8=off) or per programm(8=on)



**Impedancy adaptation :** is activated per the deep switch dip switch (1 and 2 = on) in the terminal box or on the encoder



**Programmable parameters**

**Direction :** Permits the definition of the counting sense of the encoder (CW or CCW) following its mechanical position

**Resolution :** the number of 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)

**Rax :** defines the value of its actual position

**PROFIBUS CONNECTION**

B3 : cable + connector M23 12 pins				
A	B	Vcc	GNd	Reserved
2	4	7	8	1, 3, 5, 6, 9, 10, 11, 12

B4 : cable			
A	B	Vcc	Gnd
GN / green	YE / yellow	BR / brown	WH / white

Reserved: do not connect

Nota : Refer to the bus standards for the maximal derivation length

**ORDERING CODE** (Special versions upon request, for ex. special flanges/electronics/connections...)

	Shaft Ø	Supply	Output stage	Code	Resolution	Number of turns	Connection	Connection orientation
SHU9 : Zinc cover Alu body SBU9 : Zinc cover Stainless steel body SXU9 : Stainless steel cover & body	30:30mm  Shaft reduction hubs available from 10 to 28mm	5 : 11 to 30Vdc	BG : Profibus	B: Binary	13 : 8192 points per turn (2 <sup>13</sup> )	B16 : 65 536 turns (2 <sup>16</sup> )	B3 : Cable gland + cable + M23 12 pins  B4 : Cable gland + 4 wires cable	Example :  R010 : radial cable 1m
SHU9	- 30 //	5	BG	B //	13	B16 //	B4	R010

Made in FRANCE