

SSI ABSOLUTE SINGLE TURN ENCODERS, CHU9 RANGE

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

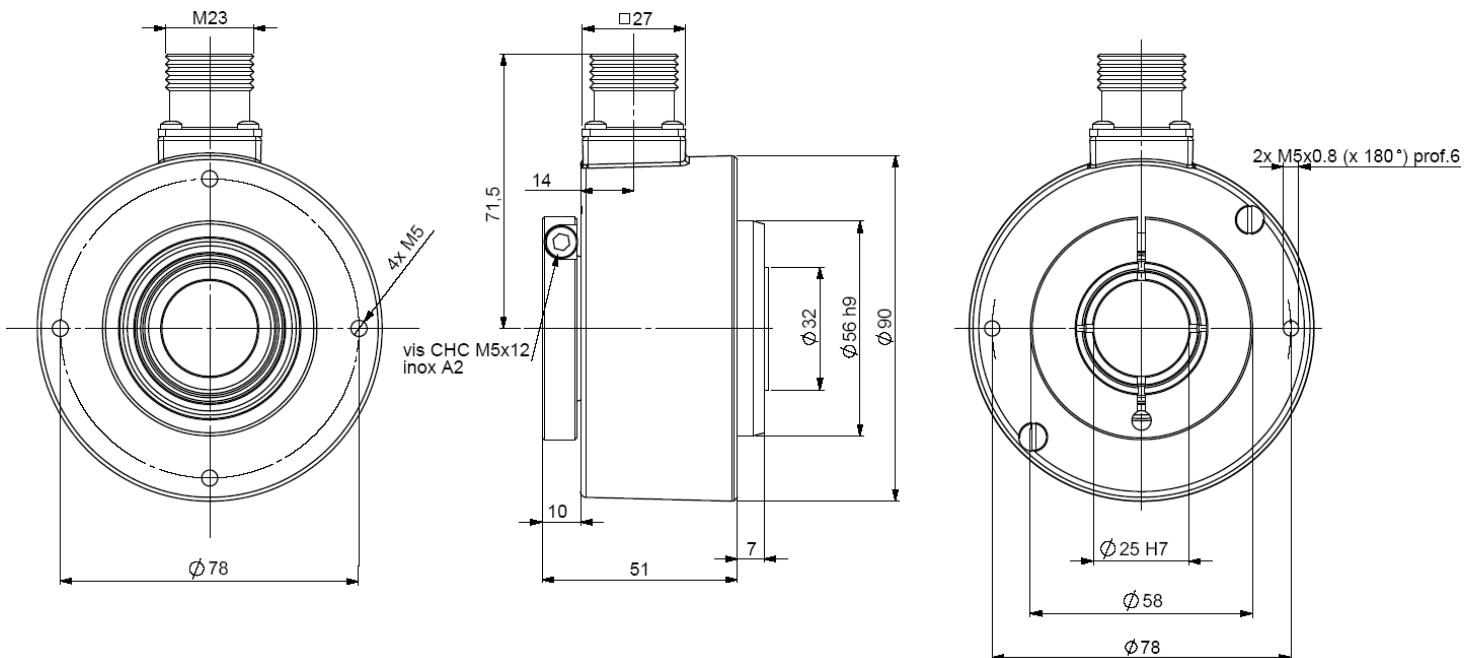
Hollow shaft of up to 30mm, adaptation of the bore size with composite hub for thermal and electric insulation (aluminium hubs in option)

Double/triple mounting in combinations of incremental, absolute, analog signals



Also available in parallel output and fieldbus interface: CanOpen, DeviceNet, Profibus

CHU9_25 connection C6R (radial M23), with reduction hub 9418/I25 (25mm) mounted on the shaft



CHARACTERISTICS

Material	Cover : zinc alloy	Vibrations (EN60068.2.6)	≤ 200m.s ⁻² (10 ... 1 000Hz)
Stainless steel option	Body : aluminium	EMC	EN 50081-1, EN 61000-6-2
Shaft	Inox	Isolation	1 000 Veff
Bearings	6807 serie	Encoder weight (approx.)	0,700kg zinc alloy cover, alu body
Maximal loads	Axial : 50 N		1,000kg zinc alloy cover, stainless steel body
	Radial : 80 N		1,200kg stainless steel cover and body
Shaft inertia	≤ 55.10 ⁻⁶ kg.m ²	Operating temperature	- 20 ... + 90 °C (encoder T°)
Torque	≤ 25.10 ⁻³ N.m	Storage temperature	- 30 ... + 95 °C
Permissible max. speed	6 000 min ⁻¹	Protection(EN 60529)	IP 65
Continuous max. speed	3 600 min ⁻¹	Torque (ring screw)	nominal: N.m, break: N.m
Shaft seal	Viton	Theoretical mechanical lifetime 10 ⁹ turns (F _{axial} / F _{radial})	
Shocks (EN60068.2.27)	≤ 500 m.s ⁻² (during 6 ms)	25 N / 40 N : 140	50 N / 80 N : 17

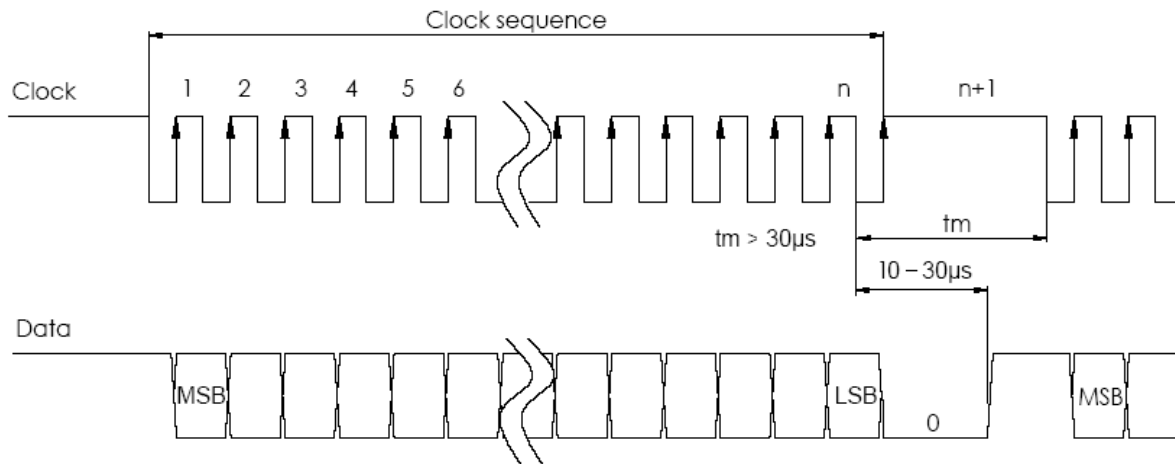
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ELECTRICAL CHARACTERISTIC

Input signal clock CLK	per opto-coupleur
Output signal DATA	line - driver RS422
Clock frequency CLK	100kHz – 1MHz
Precision	+ ½ LSB (13 bits)

Power supply	11 – 30Vdc
Introduction	< 1 s
Consumption without load	100mA max

SSI TRANSMISSION (n=13 bits)



Transmission	Transmission up to 400m at 100kHz in function of cable characteristics
Cable	High security of transmission by using shielded cable and twisted pairs

* Consult us for length > 100m

STANDARD SSI CONNECTION

Type	Vcc	Gnd	Clk+	Data+	Data-	Clk-	DIRECTION
C6	1	2	3	4	6	7	9
C7	BN brown	WH white	GN green	GY grey	PK pink	YE yellow	RD red
C8	8	1	3	2	10	11	5

DIRECTION :

- CW increasing code: DIRECTION to 0V
- CCW increasing code : DIRECTION to +Vcc

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

	Ø shaft	Supply	Output stage	Code	Resolution	Connection	Connection orientation
CHU9 Cover : zinc Body : alu	30:30mm Reduction hubs available	5 : 11 to 30Vdc	CS : SSI without parity CP : SSI even parity CI : SSI odd parity	B : binary G : Gray	13 : 13bits	C6 : M23 12 pins CW for SSI C8 : M23 12 pins CCW for SSI	R : radial
C7 : PE + cable SSI cable						Example : R020 : 2m radial cable R020 : 2m radial cable	
CHU9 - 30 // 5 CS G // 13 // C7 R020							

Made in FRANCE