

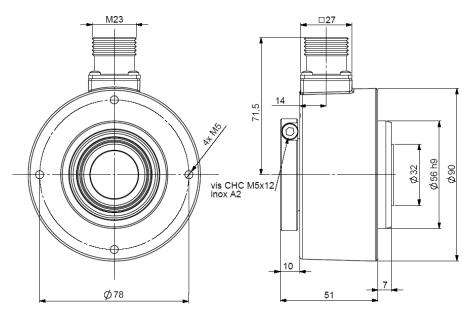
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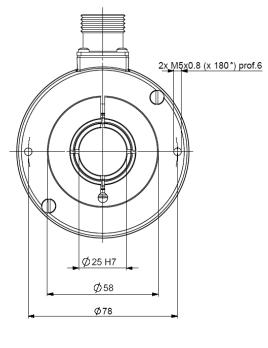
PARALLEL ABSOLUTE SINGLE TURN ENCODERS, CHU9 RANGE

CHU9, 90mm parallel absolute single turn encoders :

- Especially designed for heavy-duty (steel, paper, wood mills, cranes ...) Compact and robust conception. Excellent resistance to shocks/vibrations and to high axial/radial loads.
- Through hollow shaft 30mm, reduction hubs available from 10 to 28mm.
- High protection level IP65.
- High performances in temperature –20°C to 90°C.
- Universal power supply from 5 to 30 Vdc parallel output.
- High resolutions possibility, up to 14 bits (Gray or binary).
- Standard DIRECTION input.
- Double/triple mounting in combinations of incremental, absolute, analogue signals.

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





MECHANICAL CHARACTERISTICS

Material Stainless steel option	Cover : zinc alloy	Vibrations (EN60068.2.6) ≤ 200m.s ⁻² (10 1 000Hz)		² (10 1 000Hz)	
	Body : aluminium	EMC	EN 61000-6-4, EN 61000-6-2		
Shaft	Stainless steel	Isolation	1000 Veff		
Bearings	6807 serie		0,700kg zinc alloy cover, alu body		
Maximum loads	Axial : 50 N	Encoder weight (approx.)	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	- 40 + 100 °C		
Permissible max. speed	6 000 min ⁻¹	Protection(EN 60529)	IP 65		
Continuous max. speed	3 600 min ⁻¹	Torque (ring screw)	nominal: 3N.m, break: 4N.m		
Shaft seal	Viton	Theoretical mechanical lifetime 10° turns (F _{axial} / F _{radial})			
Shocks (EN60068.2.27)	\leq 500 m.s ⁻² (during 6 ms)	25 N / 40 N : 140		50 N / 80 N : 17	



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CHU9 CE

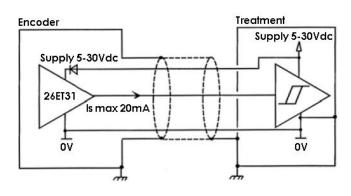
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CONNECTION

	color	13 bits + DIRECTION CP or C3	14 bits + DIRECTION C1	
1	white WH	OV	OV	
2	brown BN	+Vcc	+Vcc	
3	green GN	DO	D0	
4	yellow YE	DI	D1	
5	grey GY	D2	D2	
6	pink PK	D3	D3	
7	blue BU	D4	D4	
8	red RD	D5	D5	
9	black BK	D6	D6	
10	violet VT	D7	D7	
11	white/brown WH/BN	D8	D8	
12	white/green WH/GN	D9	D9	
13	white/yellow WH/YE	D10	D10	
14	white/grey WH/GY	D11	D11	
15	white/pink WH/PK	D12	D12	
16	white/blue WH/BU	DIRECTION	D13	
17	White/red WH/RD	/	DIRECTION	

ELECTRONIC

Tél



Power supply : 5 to 30Vdc Consumption without load : 100mA max Current output per channel : Is=20mA max Level ''0'' (Is=20mA) max : Vol = 0,5Vdc Level ''1'' (Is=20mA) min : Voh = Vcc-2,5Vdc

Protection against short circuits and inversion of polarity

DIRECTION

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

LATCH (option)

Active data on the outputs : LATCH pin to 0V Frozen data on the outputs: LATCH pin to +Vcc

Consult us for the connection of an encoder with this option.

Example, 10 bits encoder : only MSB will be supplied (D3 to D12)

ORDERING REFERENCE (Contact the factory for special versions, ex: special flanges, connections, electronics...)

	Shaft Ø	Supply	Output stage	Code	Resolution	Connection	Orientation
CHU9 Cover : zinc Body : alu CBU9 Cover : zinc	30 : 30mm Reduction	P :	5 to push pull	B : Binary	Power of 2:	CP : M23 16 pins 13 bits + direction C1 : M23 17 pins 14 bits + direction	R : radial
Body : st. steel CXU9 Stainless steel cover & body	hubs available 10 to 28mm	30Vdc		G : Gray	to 14: 14 bits	C3 : cable gland + 16 wires cable	Example : R020 : radial cable 2m
CHU9 _	30 //	P	C5	G //	13 //	C3	R020

Monitoring function available as option :

- of the code coherence.

- of the LED internal regulated current loop.

- of temperature range with 2 limits.

Consult us.

Input / output available as option:

- LATCH entry.

- ERROR output for monitoring functions.

Made in FRANCE

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