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CHM5 CE

CHM5, the new generation of absolute single turn encoders :

- Robustness and excellent resistance to shocks / vibrations
- High protection level IP65, IP67 feasible with a sealing flange
- High resolutions, up to 16 bits (gray or binary)
- Universal power supply from 5 to 30 Vdc
- High performances in temperature -20°C to 90°C (option -40°C to 100°C)

BISS ABSOLUTE SINGLE TURN ENCODERS, CHM5 RANGE

- Standard DIRECTION entry, RESET option
- Digital or sine incremental outputs option











CHM5_06 connection C6R (radial M23), flange 9500/003 mounted on the body





Ø 58

	Cover : zinc alloy	Shock (EN60068-2-27)	\leq 500 m.s ⁻² (durant 6 ms)	
Material	Body: aluminium	Vibration (EN60068-2-6)	\leq 100 m.s ⁻² (10 2 000 Hz)	
	Shaft : stainless steel	EMC	EN 61000-6-4, EN 61000-6-2	
Bearings	6 000 serie	0 serie Isolation 1 000 Veff		
Maximal load	Axial : 50 N	Weight (connector)	0,3 kg	
	Radial : 100 N	Operating temperature	- 20 90°C (encoder T°)	
Shaft inertia	≤ 1.10 ⁻⁶ kg.m ²	Storage temperature	- 40 + 100°C	
Torque	≤ 4.10 ⁻³ N.m	Protection(EN 60529)	IP 65 (IP67 with flange option)	
Permissible max. speed	12 000 min-1	Theoretical mechanical lifetime 10° turns (Faxial / Fradial)		
Continuous max. speed	ontinuous max. speed 9 000 min ⁻¹ 25 N / 50 N : 99		50 N / 100 N : 12	

Changes possible without further notice - Version 2.0



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CHM5 CE



BISS ABSOLUTE SINGLE TURN ENCODERS, CHM5 RANGE

The BISS Interface master-slave concept supports up to 8 data sources in one or more devices

• Bi-directional

Tél

- Synchronous-serial communication
- Short cycle times
- Up to 8 slaves with one master
- Multicycle data transmission



BISS Interface wiring with unidirectional lines (one sensor with several slave levels, for example)

Power supply Vcc	5 to 30Vdc (polarity protected)			
Consumption without load	Max 100mA			
Introduction	<15			
Inputs	DIRECTION and RESET option			
Outputs	Level high ≥ 2,5V (for I=20mA) Load high ≤ -20mA BiSS: RS-422	Level Iow ≤ 0,5Vdc (for I=20mA) Load Iow ≤ 20mA		
For more information: www.biss-interface.com				

BISS STANDARD CONNECTION

Туре	Vcc	0V	Clk+	Data+	Data-	Clk-	DIRECTION
C6	1	2	3	4	6	7	9
C5	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 REFERENCE (Contact the factory for special versions, ex:special flanges, connections, electronics...)

	Shaft Ø	Supply	Output stage	Code	Resolution	Connection	Orientation
CHM5	10 : 10mm	P :	CB : BiSS electronic	B: Binary	B: Binary 13: 13 bits to G: 16: 16 bits Gray	C6 : M23 12pins CW C8: M23 12pins CCW	R : radial
	06 : 6mm	5 to 30Vac		G : Gray		C5 : cable gland output	Example : R020 : radial cable of 2m
CHM5 _	10 //	Р	СВ	G //	13 //	B7	R050

Monitoring function available in option :

- of the code coherence

- of the LED internal regulated current loop

- of temperature range with 2 limits

Input / output available in option:

- RESET input

- ERROR output for monitoring functions
- Sine & Cosine outputs without index, 2048ppr (option: 4096 ppr)

- A & B incremental outputs without index, 2048ppr (option: 4096 ppr)

Consult us

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