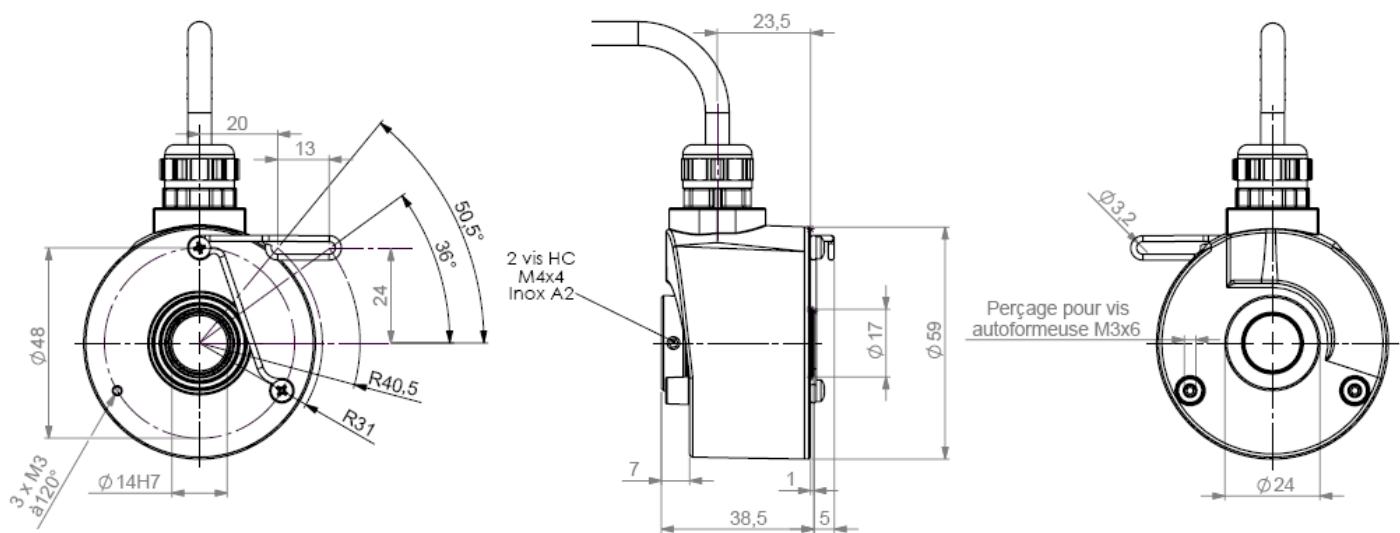


INCREMENTAL ENCODERS, JHT5_14 RANGE

JHT5 encoders are specially designed for motorist application:

- Ø14mm through shaft
- Easy mounting with DAC (Anti Coupling Device)
- Robustness and good resistance to shocks and vibrations
- High protection level IP65
- Resolution up to 2 500 ppr
- Universal electronic circuits 5V RS 422 and Push Pull 11 to 30Vdc

JHT5_14, DAC 9445/0027* mounted on bearings housing



MECHANICAL CHARACTERISTICS

Material	Cover : zamac	Shock (EN60068-2-27)	< 500 m.s ⁻² (during 6ms)
	Body: aluminium	Vibration (EN60068-2-6)	< 100 m.s ⁻² (55Hz ... 2 000Hz)
	Shaft : aluminium	EMC	EN 61000-6-4, EN 61000-6-2
Bearings	Ball bearings	Isolation voltage	1 000 V eff
Maximal loads	Axial : 30 N	Weight (400mm cable)	400g (female connector)
	Radial : 80 N	Operating temperature	- 20... + 80°C
Shaft inertia	≤ 2.10 ⁻⁶ kg.m ²	Storage temperature	- 30... + 85°C
Torque	≤ 6 .10 ⁻³ N.m	Protection(EN 60529)	IP 65
Max. speed	9 000 min ⁻¹	Theoretical mechanical lifetime 10 ⁹ turns (F _{axial} / F _{radial})	
Max. speed (continuous)	6 000 min ⁻¹	10 N / 25 N : 230	20 N / 50 N : 29

INCREMENTAL ENCODERS, JHT5_14 RANGE

ENCODERS OUTPUT SIGNALS

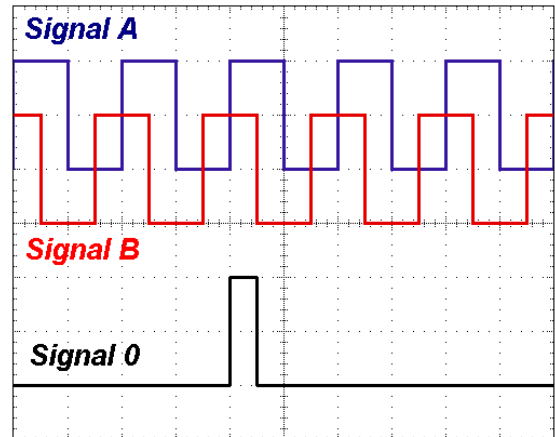
Signals A, B, 0

The channel B (mounting front) arrives before A clockwise seen from the DAC side

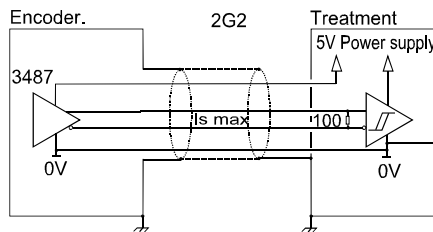
Period : 360° electrical
Cycle ratio : 180° +/- 10% or 18°
Electrical phaseshift : 90° +/-25% or 22,5°

The 90° electrical phase-shift between A and B signals determines the rotation direction:

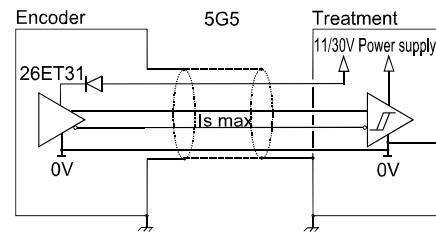
- clockwise (seen from DAC side) during the mounting front of A, B signal is "1"
- counter clockwise, during mounting front of A, B channel is "0"



OUTPUT STAGES / POWER SUPPLY – DIGITAL SIGNALS (SQUARE WAVE)



2G2 electronic
5Vdc ± 10% power supply
Consumption : 100mA
Max intensity per channel : 40mA
Level 0 , I_s=20mA : V_{ol} = 0,5Vdc
Level 1 , I_s=20mA : V_{oh} = 2,5Vdc



5G5 electronic
11 to 30Vdc power supply
Consumption : 75mA
Max intensity per channel : 40mA
Level 0 , I_s=20mA : V_{ol} = 0,5Vdc
Level 1 , I_s=20mA : V_{oh} = V_{cc}-3Vdc

Protection against short circuits for the electronic 5G5.
Protection against inversion of polarity for the electronic 5G5.

STANDARD CONNECTIONS

		-	+	A	B	0	A/	B/	0/	Ground
G3	PVC cable 8 wires 8230/020	WH white	BN brown	GN green	YE yellow	GY grey	PK pink	BU blue	RD red	General shielding

REFERENCE

	Shaft Ø	Digital signals (square wave)			Connection	Cable output	DAC	
JHT5_	14: 14mm	2G2, 5G5 electronic		Signals	G3: PVC cable	Example : R004: 400mm radial connection	**DF**: encoder delivered with 9445/027 DAC	
		Supply	Output stage	9: A, A/ B, B/ 0, 0/ (A & B gated 0)				
		2: 5Vdc 5: 11 to 30Vdc	G2: driver 5Vdc RS422 G5: push-pull					
JHT5_	14 //	2	G2	9 //	1024 //	G3	R004 //	**DF**

Made in FRANCE