



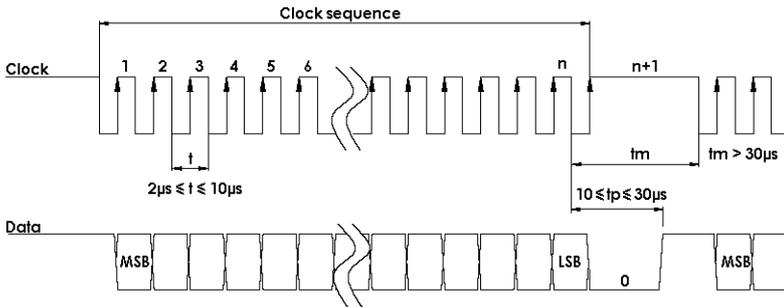
In order to optimize the installation times of SSI encoders, BEI IDEACOD has developed a friendly software package, easy to use, with which is possible to program your encoder under WINDOWS in only 2 minutes. With a simple connection to the serial connector of your PC, you can :

- configure : the number of steps per revolution, the number of turns, the code type, SSI frame bit number, the parity, reset value
- read : type of selected encoder, the serial number of the encoder, the position of the encoder, the temperature, the speed of rotation, the level of the input/output
- save the chosen configuration, load saved configurations
- function of the outputs and limit value : position, speed of rotation, temperature, incremental channels 2048 ppr

**ELECTRICAL CHARACTERISTIC**

Input signal clock CLK	per opto-coupleur	Power supply	5 – 30Vdc
Output signal DATA	line - driver RS422	Introduction	< 1 s
Clock frequency CLK	100kHz – 500kHz	Cons. without load	< 100mA (typically 60-70mA at 24Vdc)
Precision	± ½ LSB (13 bits)	Position refresh	< 200µs

**SSI TRANSMISSION**



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

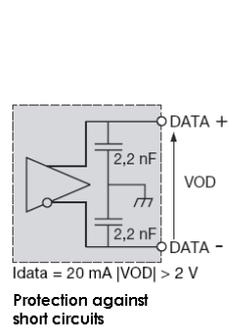
\* consult us for length > 100m

**SSI CONNECTION**

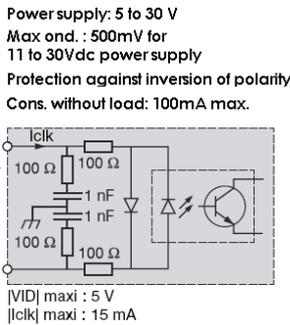
Type	Vcc	Gnd	Clk+	Data+	RAZ	Data-	Clk-	DIR.	OUT1	OUT2	TXD Encoder RXD RS232	RXD Encoder TXD RS232
P6	1	2	3	4	5	6	7	9	10	11	8	12

The pinouts TXD and RXD are used for the encoder programming  
Connect the entry DIRECTION and RAZ to a potential (RAZ to the 0V if not used)

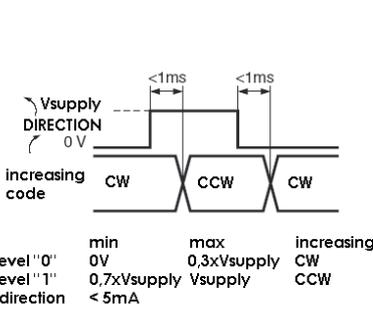
**Data output RS422**



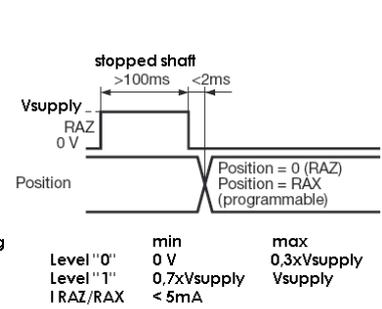
**Isolated Clk input**



**DIRECTION input**



**RAZ / RAX input**



- Output :**
- Max current: 20mA
  - Level "0" max : 0.5V, Level "1" min :  $V_{supply} - 2,5 \text{ V}$
  - Limit switch time answer :  $< 400 \mu s$
  - Incremental channels : 100kHz max

**Programming cable : PC RS232**

- Supply : 230Vac / 12Vdc
- Cable SubD9 (serial PC) / M23 12 pins (encoder)
- Reference : PRO-020S001**

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

PHM5_	Shaft Ø	Supply	Output stage	Code	Resolution			Connection	Orientation
	06:6mm 10:10mm	P : 5 to 30Vdc	PX : SSI programmable Nota : without parity by default	G : Gray default	13 B12 D5			P6: M23 12pins CW for SSI transmission	R : radial
	Resolution	Nb of turn	Nb data						
					13: 13 bits default	B12: 12 bits default	D5: 25 bits default		
PHM5_	10 //	P	PX	G //	13	B12	D5 //	P6	R

**SOFTWARE / CONFIGURATION MANUAL:** consult us

Encoder available in stock, manufacture setting: 8192pts/turn, 4096 turns (25bits) - Gray

