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SSI PROGRAMMABLE MULTITURN ABSOLUTE ENCODER, PHM9 RANGE

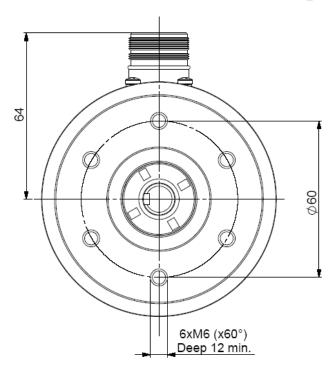
- \bullet Heavy Duty version, $\, \varnothing \,$ 11 or 12 mm shaft diameter
- Robustness and excellent resistance to shocks / vibrations
- High protection level IP66
- High performances in temperature -20°C to +85°C
- Isolated SSI interface, clock from 100 to 500 kHz
- Universal electronic circuits from 5 to 30Vdc
- Protection against short-circuits and inversion of polarity
- High resolutions available: 8192 (13 bits) per turn
- Turn counting up to 65 536 (16 bits)
- 2 inputs : DIRECTION and RAZ
- Type choice of the wished limit value: position, rotation speed, temperature
- Diagnostic functions: temperature, rotation speed, position, input/output level
- Programmation of the encoder with a serial transmission RS232 directly with the serial PC connection: resolution, number of turn, output code, parity, SSI frame bit number, reset value, functions of the 2 outputs: (OUT 1 and OUT 2): limit switch, incremental channels

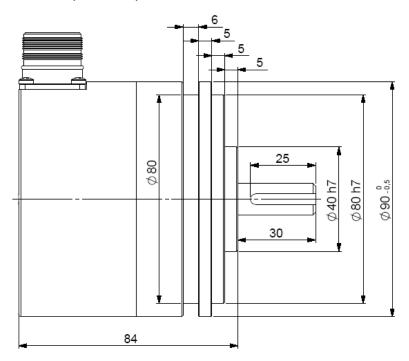


RS232



PHM9_12 connection P6R (radial M23)





CHARACTERISTICS

Madaglal	Cover : steel			
Material	Body: aluminium			
Shaft	Stainless steel			
Bearings	6001 serie			
Mayinalladda	Axial : 100 N			
Maximal loads	Radial : 200 N			
Shaft inertia	≤ 15.10-6 kg.m ²			
Torque	≤ 10.10-3 N.m			
Permissible max. speed	6 000 min ⁻¹			
Continuous max. speed	6 000 min ⁻¹			
Shaft seal	Viton double lips			

Shocks (EN60068.2.27)		≤ 500m.s ⁻² (during 6 ms)			
Vibrations (EN60068.2.6	ó)	≤ 100m.s ⁻² (10 2 000 Hz)			
EMC		EN 61000-6-4, EN 61000-6-2			
Isolation		100V (1 min.)			
Encoder weight (appre	ox.)	1,600 kg			
Operating temperatur	е	- 20 + 85 °C (encoder T°)			
Storage temperature		- 20 + 85 °C			
Protection(EN 60529)		IP 66			
Theoretical mechanical lifetime 10° turns (F _{axial} / F _{radial})					
20 N / 30 N	50 N	I / 100 N	100 N / 200 N		
360		18	2,2		

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PHM9

SSI PROGRAMMABLE MULTITURN ABSOLUTE ENCODER, PHM9 RANGE

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

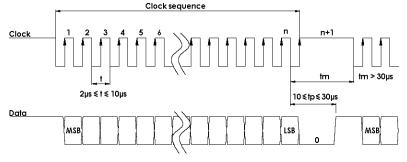
- configure : the number of points per revolution, the number of turns, the code type, SSI frame bit number, the parity, reset value
- read: type of selected encoder, the serial number of the encoder, the position of the encoder, the temperature, the speed of rotation, the level of the input/output
- 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
Output signal DATA	line - driver selon RS422
Clock frequency CLK	100kHz – 500kHz

Power supply	5 – 30Vdc
Introduction	< 1 s
Cons. without load	< 100mA (typically 60-70mA at 24Vdc)
Position refresh	·

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

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

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

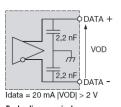
Data output RS422

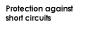
Isolated Clk input Power supply: 5 to 30 V

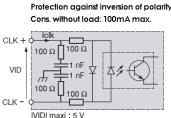
Max ond.: 500mV for 11 to 30Vdc power supply

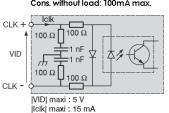
DIRECTION input

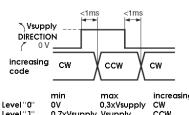
RAZ / RAX input

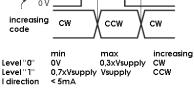


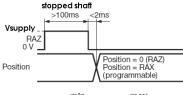












max Level"0 0,3xVsupply Level"1 0,7xVsupply Vsupply I RAZ/RAX < 5mA

Output: - Max current: 20m A

- Level "0" max: 0.5V, Level "1" min: Vsupply-2,5V

- Limit switch time answer: < 400 µs - Incremental channels: 100kHz max Programmation cable: PC RS232

- Supply: 230Vac / 12Vdc

- Cable SubD9 (serial PC) / M23 12 pins (encodeur)

Reference: PRO-020S001

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

	Shaft Ø	Supply	Output stage	Code	Resolution			Connection	Orientation
			PX : SSI programmable Nota : without parity by default	G : Gray default		13 B12 D5		P6: M23 12pins CW for SSI	R : radial
PHM9_	11 :11mm	P :5 to			Resolution	Nb of turn	Nb data		
_	12 :12mm	30Vdc			13: 13 bits default	B12: 12 bits default	D5 : 25 bits default	transmission	
PHM9_	10 //	Р	PX	G //	13	B12	D5 //	P6	R

SOFTWARE / CONFIGURATION MANUAL: consult us

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