

| PHM5 SSI ABSOLUTE MULTITURN ENCODER



- Solid shaft Ø 6 and Ø 10 mm
- Robustness and excellent resistance to shocks / vibrations
- High protection level IP65, IP67 option with a sealing flange
- 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
- Available with incremental channels 2048 points 5 to 30 Vdc
- Option: push-button on the cover for a encoder reset to a value X



Mechanical

Cover : treated steel								
Body: aluminum								
Shaft: stainless steel								
6 000 serie								
Axial: 50 N								
Radial: 100 N								
≤ 1.10 ⁻⁶ kg.m ²								
≤ 4.10 ⁻³ N.m								
6 000 min ⁻¹								
6 000 min ⁻¹ ≤ 500 m.s ⁻² (during 6 ms) ≤ 100 m.s ⁻² (10 2 000 Hz)								
					EN 61000-6-4, EN 61000-6-2 100V (1 min.)			
- 20 + 85 °C (encoder T°)								
- 20 + 85 °C								
IP 65 (IP67 with flange option)								
25 N / 50 N : 99								
50 N / 100 N : 12								

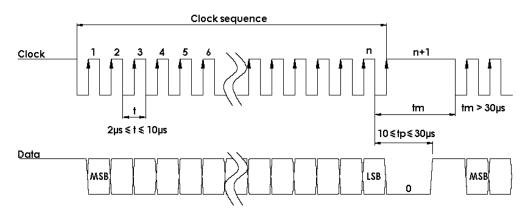


Electrical

Input signal clock CLK	per opto-coupleur		
Output signal DATA	line - driver selon RS422		
Clock frequency CLK	100kHz — 500kHz		
Precision	± ½ LSB (13 bits)		

Power supply	5 – 30Vdc			
Introduction	<1s			
Cons. without load	< 100mA (typically 50-60mA at 24Vdc)			
Position refresh	< 200µs			





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		

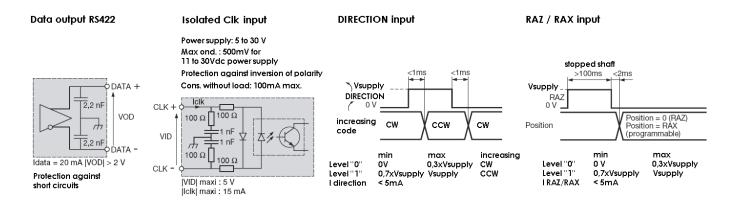
^{*}Consult us for length > 100m



SSI CONNECTION (TYPE S6: BEI IDEACOD STANDARD)

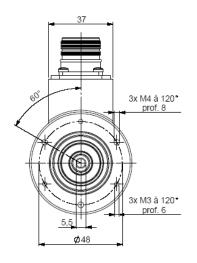
Туре	Vcc	Gnd	Clk+	Data+	RAZ	Data-	Clk-	DIRECTION
S 6	1	2	3	4	5	6	7	9
S8	8	1	3	2	6	10	11	5

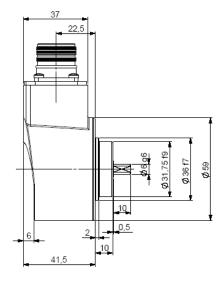
Note: Do not connect other pinouts, connect DIRECTION and RAZ to a potential (RAZ at 0V if not used)

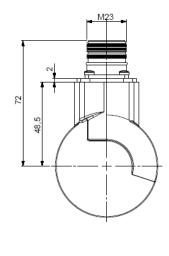




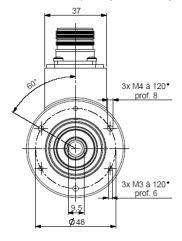
PHM5_06 connection S6/S8R (M23 radial)

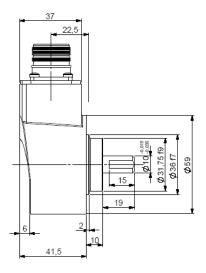


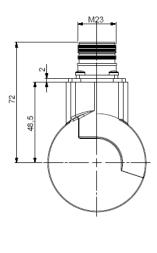




PHM5_10 connection S6/S8R (M23 radial)

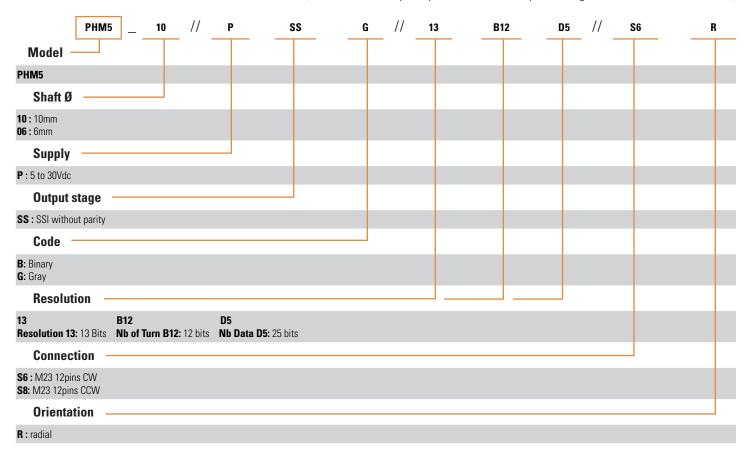








(Contact the factory for special versions, ex: special flanges, connections, electronics...)





AGENCY APPROVALS & CERTIFICATIONS



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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

+1 (800) 350 2727 sales.beisensors@sensata.com **Europe, Middle East & Africa** +33 (3) 88 20 8080

position-info.eu@sensata.com

Asia Pacific

sales.isasia@list.sensata.com China +86 (21) 2306 1500 Japan +81 (45) 277 7117 Korea +82 (31) 601 2004 India +91 (80) 67920890 Rest of Asia +886 (2) 27602006 ext 2808