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PHO5 ←

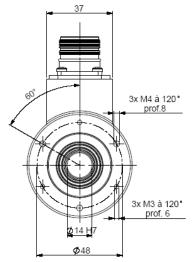
ABSOLUTE MULTITURN ENCODER, PHM5 RANGE

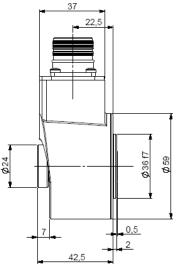
- Extra-flat encoder, through shaft Ø 14 mm, reduction hubs available: 6, 8, 10, 12mm
- Robustness and excellent resistance to shocks / vibrations
- High performances in temperature -20°C to +85°C
- Isolated SSI interface, clock from 100 to 500 kHz
- Universal electronic circuits from 5 to 30Vdc
- Protection 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

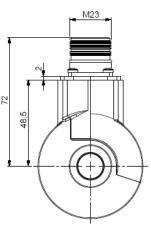




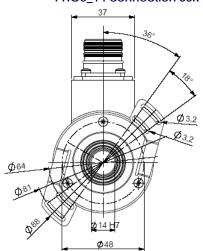
PHO5_14 connection S6R / S8R (M23 radial)

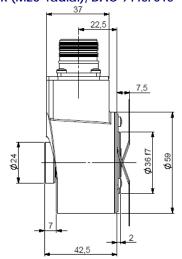


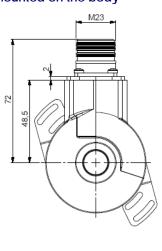




PHO5_14 connection S6R / S8R (M23 radial), DAC 9445/015* mounted on the body







* Accessories to be ordered separately

	1 3			
	Cover: treated steel			
Material	Body: aluminium			
	Shaft: stainless steel			
Bearings	6 803 serie			
Maximum load	Axial: 20 N			
Maximumioau	Radial: 50 N			
Shaft inertia	$\leq 2,2.10^{-6} kg.m^2$			
Torque	≤ 6.10 ⁻³ N.m			
Permissible max. speed	6 000 min ⁻¹			
Continuous max. speed	6 000 min ⁻¹			
Shaft seal	Viton			

Shock (EN60068-2-27)	≤ 500m.s ⁻² (during 6 ms)				
Vibration (EN60068-2-6)	≤ 100m.s ⁻² (10 2 000 Hz)				
EMC	EN 61000-6-4, EN 61000-6-2				
Isolation	100V (1 min)				
Weight	0,480 kg				
Operating temperature	- 20 + 85 °C (encoder T°)				
Storage temperature	- 20 + 85 °C				
Protection(EN 60529)	IP 65				
Torque (ring pressure screw)	nominal: 1.5N.m, break: 2.0N.m				
Theoretical mechanical lifetime 10° turns (Faxial / Fradial)					
10 N / 25 N : 185	20 N / 50 N : 24				



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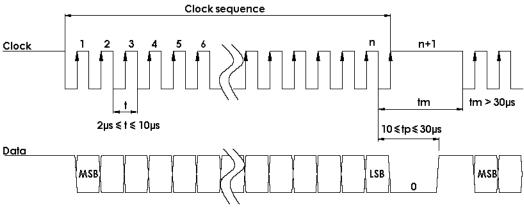
ABSOLUTE MULTITURN ENCODER, PHO5 RANGE

ELECTRICAL CHARACTERISTIC

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

Power supply	5 – 30Vdc
Introduction	< 1 s
Cons. Without load	< 100mA (typically 50-60mA at 24Vdc)
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 twisted pair cable

Consult us for length > 100m

Protection against

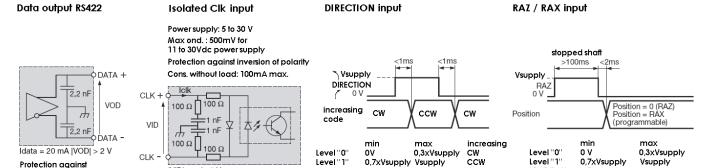
short circuits

SSI CONNECTION (TYPE S6 : BEI IDEACOD STANDARD)

|VID| maxi : 5 V |Iclk| maxi : 15 mA

Туре	Vcc	Gnd	Clk+	Data+	RAZ	Data-	Clk-	DIRECTION
S6	1	2	3	4	5	6	7	9
\$8	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)



CCW

Level"1

Vsupply

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

	Shaft Ø	Supply	Output stage	Code	Resolution			Connection	Orientation
PHO5	14 : 14mm		SS : SSI without parity		13 B12 D5				
				B: binary G: Gray	Resolution	Nb of turn	Nb data	S6: M23 12pins CW for SSI transmission S8: M23 12pins CCW for SSI transmission	R:radiale
	Nota: reduction hubs available	P :5 to 30Vdc			13: 13 bits	B12: 12 bits	D5: 25 bits		
PHO5 _	14 //	Р	SS	G //	13	B12	D5 //	\$6	R

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