

AXM5S

SSI SINGLE-TURN ENCODERS, STAINLESS STEEL 316 - IP69K



- Adapted to food and beverage pharmaceutic river offshore applications
- Stainless steel encoder (316) with hygienic design
- Flanges and shaft adapted to the market needs
- Robustness and excellent resistance to shocks / vibrations
- Double ball bearings with safety lock system
- High protection level IP69K
- Universal electronic circuits from 5 to 30Vdc
- Isolated SSI interface, clock from 100 to 500 kHz
- High performances in temperature –20°C to +85°C
- Magnetic technology, Hall effect contactless
- Available resolution up to 12 bits per revolution
- Adapted axial cable gland output



Mechanical

Storage temperature	- 20 + 85 °C				
Operating temperature	- 20 + 85 °C (T° encoder)				
Isolation	500 Veff				
EMC	EN 61000-6-4, EN 61000-6-2				
Protection(EN 60529)	IP 69K				
Encoder weight (approx.)	0,600 kg				
Vibrations (EN60068-2-6)	≤ 2000m.s ⁻² (55 2 000 Hz)				
Shocks (EN60068-2-27)	≤ 2000m.s ⁻² (during 6 ms)				
Torque	≤ 90.10 ⁻³ N.m				
Shaft inertia	≤ 1,2.10 ⁻⁶ kg.m ²				
Continuous max. speed	3 000 min ⁻¹				
Permissible max. speed	4 000 min ⁻¹				
Theoretical mechanical lifetime 10° turns (Faxial / Fradial)	250 N / 500 N : 0,5				
Theoretical machanical lifetime 109 trums (Favial / Fredial)	50 N / 100 N : 12				
ividxiiiidi Ludus	Radial : 500 N				
Maximal Loads	Axial : 250 N				
Bearings	Double ball bearings				
	Body: Stainless steel 316				
Material	Cover: Stainless steel 316				
	Shaft: Stainless steel 316				

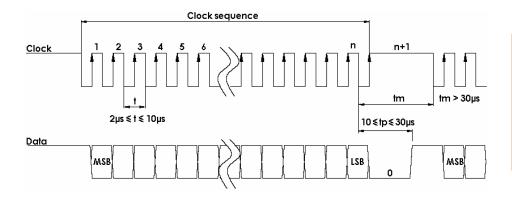
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Electrical

Power Supply	5-30 Vdc				
Consumption without Load	<40mA (at 24Vdc)				
Resolution	12 bits				
Accuracy	± 0,3% (on 360°)				
Repeatability	± 0,1% (on 360°)				
Introduction	<1s				
Refresh Rate	< 400µs				
Input Signal Clock CLK	Per optocoupler				
Output Signal DATA	line - driver RS422				

SSI TRANSMISSION

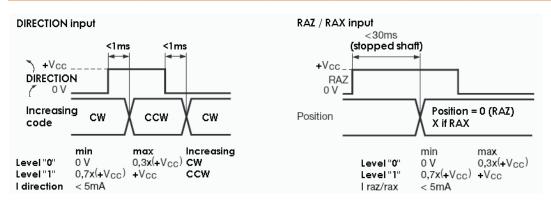


Transmission	Transmission up to 400m at 100kHz in function of the cable characteristics.				
Cable	High security of transmission by using shielded cable and twisted pairs.				

^{*} Consult us for length > 100m.

SSI CONNECTION

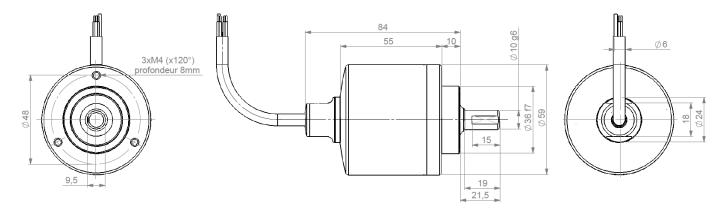
Туре	Cable	+ Vcc	0V	Clk+	Data+	RAZ	Data-	Clk-	Direction	Ground
S5	PUR cable 8230/050	BN/GN Brown/ Green	WH/GN White/ Green	GN Green	GY Gray	BU Blue	PK Pink	BN Brown	WH White	General Shielding



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

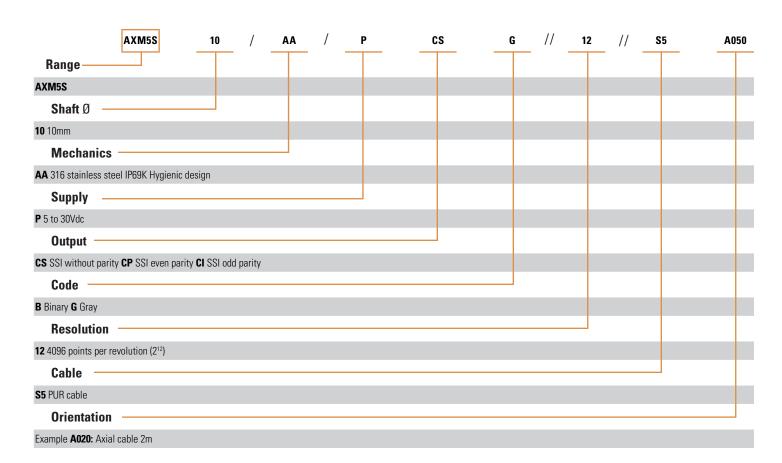


AXM5S10





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





AGENCY APPROVALS & CERTIFICATES



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