

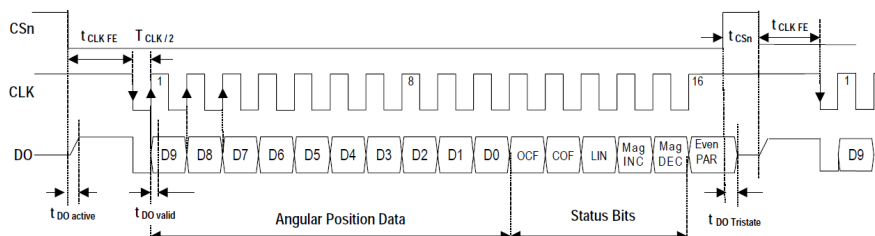
15S MSL RCBB

MAGNETIC ENCODER

The 15S encoder is proposed in a robust aluminium housing. The bushing mount allows a simple fixture. The magnetic sensor cancels any contact problems.



- Contactless 360°
- Synchronous Serial Interface
- Bushing mount M10x0,75
- Small size : diam 15 mm



Falling edge of CS triggers a measurement value

Signal timing: $t_{CSn} > 500ns$

$t_{CLKFE} > 500ns$

$CLK < 1MHz$

Remark: Above signal timing apply to 10 Bit version.

Electrical specifications	SER
Electrical angle	360° CW CW means that the output rises when the shaft is turned CW, the sensor is viewed from the shaft
Independant linearity	± 0.5%
Resolution	1024 steps (10 bits)
Acquisition time	0.1 ms
Supply voltage	5 VDC ± 10%
Supply current	<20 mA

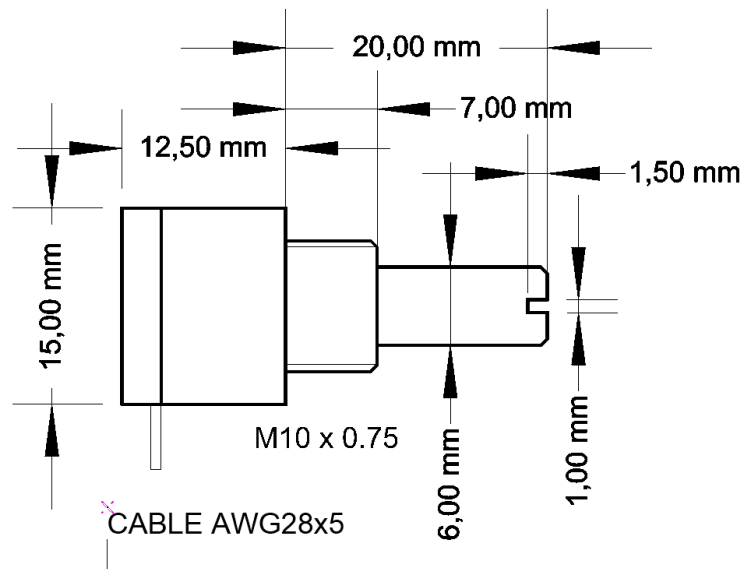
Mechanical specifications	
Bearing	1 Ball bearing
Mechanical angle	360°
Max speed without reading	400 rpm
Life time	5.10 ⁶ revolutions
Starting torque	0,5 Ncm
Operating temperature	-40 to +85°C
Housing	Anodized aluminium
Shaft	Stainless steel

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Wiring (cable 100 mm AWG28)

1 (Red)	+5v
2	CSn
3	CLK
4	DO
5	GND

Option S : connector wire to wire

Connector mounted at the end of the cable	MOLEX 50-57-9406	
SL™ Crimp Housing, Single Row, Version G, Positive Latch, 6 Circuits		
1	+5v	
2	CSn	
3	CLK	
4	DO	
5	GND	
Male connector supplied	MOLEX 70107-0005 (terminals 16-02-0078)	

Order code

Sensor Ø 15mm	15S				
Bushing M10, shaft Ø 6,00 mm , ball bearing		MSL	RCBB		
Supply / Output: 5VDC±10% SER (10 bits)				05 SER S10	
Wires 100 mm					
Wires 100 mm + Connector					S
Order code :	15S	MSL	RCBB	05 SER S10	S