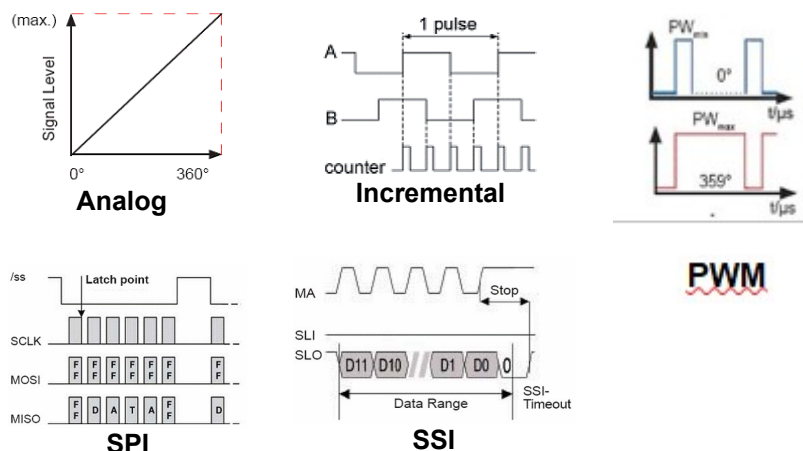


22X RCBB

MAGNETIC ENCODER

The determination of angular position and signal generation is realised by an intelligent CMOS Hall sensor. A diametrical polarised magnet induces its magnetic field into the sensor. It rotates and provides a conditioned signal to the integrated electronic.



- Contactless
- Travel up to 360°
- Ball bearing
- Bush mounting

SSI bus : consult the application note AN169

Electronical features					
Version	Analog (A)	Incremental (I)	SPI (P)	SSI (Y)	PWM (W)
Electrical angle	360° (programmable by step of 1° on demand)				
Max frequency	/	500 kHz	5 kHz	10 kHz	/
Resolution	4096 step (12 bits)	2 to 128,256,512, 1024 ppr (10 bits)	16384 step (14 bits)	4096 step (12 bits)	4096 step (12 bits)
Voltage supply	5VDC ±10% 9-30VDC / 15-30VDC	5VDC ±10% 9-30VDC	5VDC ±10% 3,3VDC ±10%	5VDC ±10% 9-30VDC	5VDC ±10%
Current supply	< 25 mA	< 30 mA			< 25 mA
Output signal	0-5V / 0-10V / 4-20mA / 0-20mA / PWM	TTL / Open Collector : Max current 100mA	SPI	SSI	PWM
Linearity	0,5 %	/			0,5%
Max rotation speed with reading	160 rpm	1600 rpm	800 rpm	1600 rpm	160 rpm
Connection	Flat cable 3 wires (150mm)	Flat cable 5 wires (150mm)		Flat cable 6 wires (150mm)	Flat cable 3 wires (150mm)

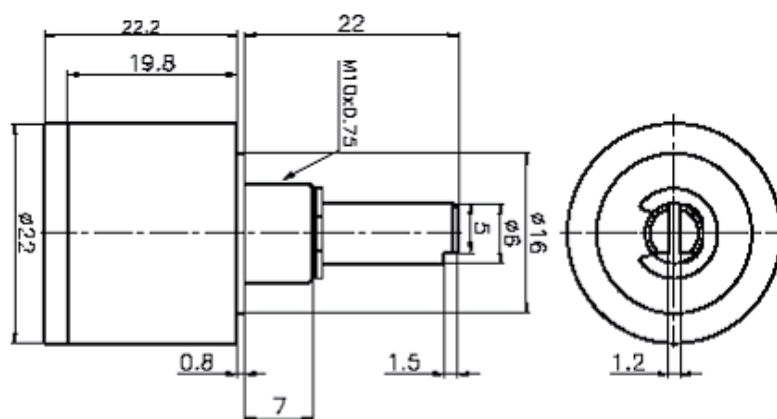
Mechanical features	
Version	1 ball bearing
Mechanical angle	360°
Max rotation speed without reading	4000 rpm
Lifespan	15.10 ⁶ rotations
Starting torque	0,1 Ncm
Operating temperature	-40 à +85°C
Housing	Anodized aluminium
Axis	Stainless steel



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22x RCBB



Also available with an axis Ø 6,35 mm

Connection

	1	2	3	4	5	6
Analog / PWM	Supply (red)	Output (Brown)	Ground (Black)			
Incremental	Supply (red)	ChZ	ChB	ChA	Ground	
SPI	Supply (red)	Ground	Output	Clock	Chip Select	
SSI	Supply (red)	Ground	Clock+	Clock-	Data+	Data-

Connectors for encoders 22x RCBB

Terminal block - Axial (OCTA)	Terminal block - Radial (OCTR)
Core flat cable (OCF)	

Order code	Standard					Option
Sensor Ø 22mm	22					
Analog Incremental SPI SSI PWM		A I P Y W				
Threaded bushing M10, axe Ø 6 mm Threaded bushing 3/8", axe Ø 6,35 mm			MSL ZSL			
Ball bearing				RCBB		
Power supply / Output signal : 5VDC±10% / 0-5V (ratio-metric) 9-30VDC / 0-5V 15-30VDC / 0-10V 15-30VDC / 4-20mA 5VDC±10% / PWM 5VDC±10% / TTL 5VDC±10% / Open Collector 9-30VDC / Open Collector 5VDC ±10% / SPI (14 bits) 3 wires 5VDC ±10% / SPI (14 bits) 4 wires 3,3VDC ±10% / SPI (14 bits) 4 wires 5VDC±10% / 5V SSI (12 bits) 9-30VDC / 24V SSI (12 bits)					S 0505 S DC05 S 2410 S 2442 S PWM S 05TTL S 05OC S 24OC 05 SPI S14 E 05 SPI S14 E 33 SPI S14 05 SSI S12 24 SSI S12	
Interconnections : Core flat cable Terminal block - Axial Terminal block - Radial						OCF OCTA OCTR
Reference :	22	A	MSL	RCBB	S0505	OCF