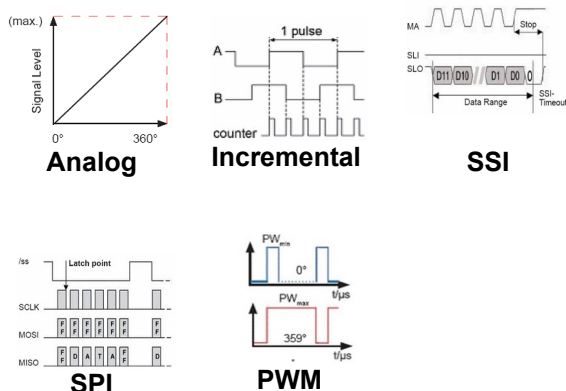


25x RSB

MAGNETIC ENCODERS SPEEDCONNECT

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



- Contactless
- Travel up to 360°
- Bush mounting
- Different connectors

SSI bus : consult the application note AN169.
SPI bus : consult the application notes AN172 and AN173

Version	Electrical specifications				
	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 step (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	3,3VDC ±10% 5VDC ±10%	5VDC ±10% 9-30VDC	5VDC ±10%
Current supply	< 16 mA	< 30 mA			< 16 mA
Output signal	0-5V / 0-10V / 4-20mA / 0-20mA	5V TTL / 5V / 24V 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

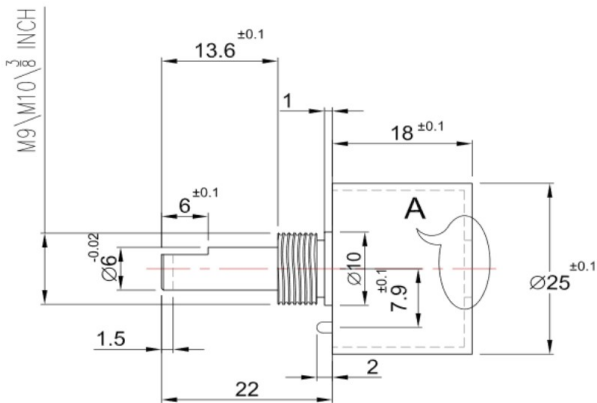
Mechanical specifications	
Mechanical angle	360°
Max rotation speed without reading	800 rpm (Brass) / 3000 rpm (Polymer)
Lifespan	10.10 ⁶ rotations (Brass) / 15.10 ⁶ (Polymer)
Starting torque	0,5 Ncm
Operating temperature	-40 à +85°C
Housing	PA66
Shaft	Stainless steel



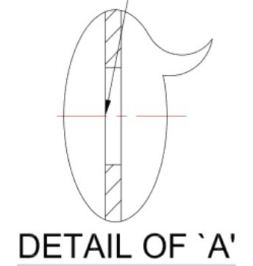
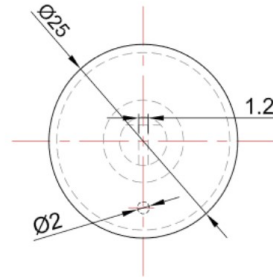
ANDIG S.A.R.L
451, route des Blaves
74200 ALLINGES
<https://www.andig.fr>

Tél : +33 (0)4 50 70 54 54
Fax : +33 (0)4 50 70 56 56
Email : info@andig.fr

25 RSB

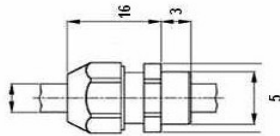


AS PER CUSTOMER
REQUIREMENT CONNECTOR \
CABLE GLAND \ TERMINAL BLOCK



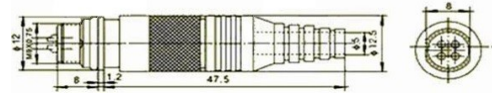
Interconnections for encoders 25 RSB:

Cable gland (OCG)

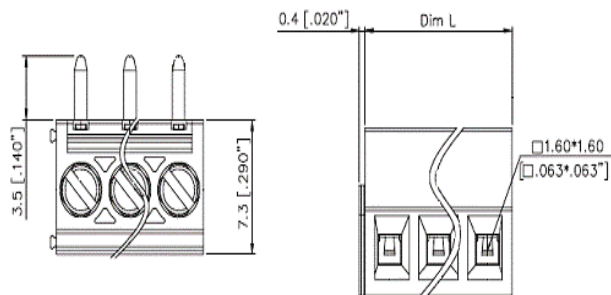


Cable length 1m

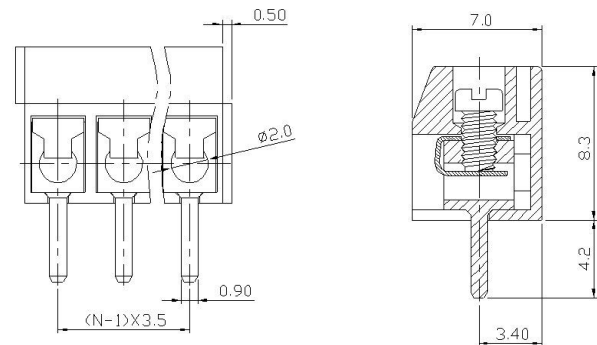
Miniature connector (OCM)



Axial terminal block (OCTA)



Radial terminal block (OCTR)



Wirings

Analog / PWM	1	2	3
OCG	Supply (red)	Output (brown)	Ground (noir)
OCM, OCTA, OCTR	Supply	Output	Ground

Incremental	1	2	3	4	5
OCG	Supply (red)	Ch Z (brown)	Ch B (yellow)	Ch A (orange)	Ground (black)
OCM, OCTA, OCTR	Supply	Ch Z	Ch B	Ch A	Ground

SPI 3 wires	1	2	3	4	5
OCG	Supply (red)	Ground (black)	MOSI/MISO (brown)	CLK (orange)	CS (yellow)
OCM, OCTA, OCTR	Supply	Ground	MOSI/MISO	CLK	CS

SPI 4 wires	1	2	3	4	5	6
OCG	Supply (red)	Ground (black)	CLK (orange)	MOSI (blue)	MISO (brown)	CS (yellow)
OCM, OCTA, OCTR	Supply	Ground	CLK	MOSI	MISO	CS

SSI	1	2	3	4	5	6
OCG	Supply (red)	Ground (black)	Clock + (orange)	Clock - (brown)	Data + (green)	Data - (yellow)
OCM, OCTA, OCTR	Supply	Ground	Clock +	Clock -	Data +	Data -

sf_25x_rsb_2404_e09 - Document & produit soumis à modifications sans préavis.



Order code	Standard					Options
Sensor Ø 25mm	25					
Analog Incremental SPI SSI PWM		A I P Y W				
Range			RS			
Bushing M10 / shaft Ø 6mm Bushing M9 / shaft Ø 6mm Bushing 3/8" / shaft Ø 6,35mm				B1 B2 B3		
Power supply / Output signal :						
5VDC±10% / 0-5V (ratio-metric) 9-30VDC / 0-5V 15-30VDC / 0-10V 15-30VDC / 4-20mA					S 0505 S DC05 S 2410 S 2442	
5VDC±10% / PWM					S PWM	
5VDC±10% / TTL 9-30VDC / Open Collector 5VDC±10% / Open Collector					S 05TTL S 24OC S 05OC	
5VDC ±10% / SPI 3 wires (14 bits) 5VDC ±10% / SPI 4 wires (14 bits) 3,3VDC ±10% / SPI 4 wires (14 bits)					05 SPI S14 E 05 SPI S14 E 33 SPI S14	
5VDC±10% / 5V SSI (12 bits) 9-30VDC / 24V SSI (12 bits)					05 SSI S12 24 SSI S12	
Interconnections :						
Cable gland with round cable 1m Miniature connector Terminal block - Axial Terminal block - Radial Rubber gromet with round cable 1m						OCG OCM OCTA OCTR OCR
Reference example :	25	A	RS	B1	S0505	OCG



ANDIG S.A.R.L
451, route des Blaves
74200 ALLINGES
<https://www.andig.fr>

Tél : +33 (0)4 50 70 54 54
Fax : +33 (0)4 50 70 56 56
Email : info@andig.fr