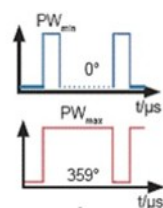
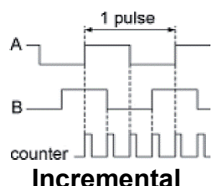
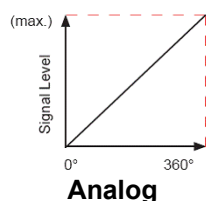


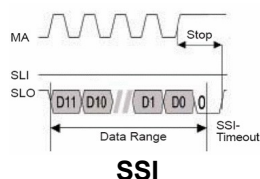
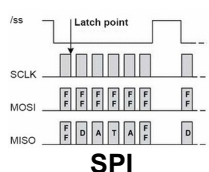
25X RSF

MAGNETIC ENCODER 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.



PWM



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

SSI bus : consult the application note AN169.

SPI bus : consult the application notes AN172 and AN173.

Electrical specifications					
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 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			
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	3000 rpm
Lifespan	15.10 ⁶
Starting torque	0,5 Ncm
Operating temperature	-40 à +85°C
Housing	PA66
Shaft	Stainless steel



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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_rsf_2404_e08 - 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			
Servo mounting Ø 6				F1		
Power supply / Output signal :						
5VDC±10% / 0-5V (ratio-metric)					S 0505	
9-30VDC / 0-5V					S DC05	
15-30VDC / 0-10V					S 2410	
15-30VDC / 4-20mA					S 2442	
5VDC±10%/ PWM					S PWM	
5VDC±10% / TTL					S 05TTL	
9-30VDC / Open Collector					S 24OC	
5VDC±10% / Open Collector					S 05OC	
5VDC ±10% / SPI 3 wires (14 bits)					05 SPI S14	
5VDC ±10% / SPI 4 wires (14 bits)					E 05 SPI S14	
3,3VDC ±10% / SPI 4 wires (14 bits)					E 33 SPI S14	
5VDC±10% / 5V SSI (12 bits)					05 SSI S12	
9-30VDC / 24V SSI (12 bits)					24 SSI S12	
Interconnections :						
Cable gland with round cable 1m						OCG
Miniature connector						OCM
Terminal block - Axial						OCTA
Terminal block – Radial						OCTR
Rubber gromet with round cable 1 meter						OCR
Reference example :	25	A	RS	F1	S0505	OCG