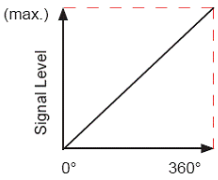
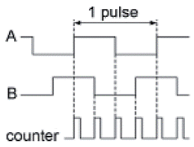
25x RSK

MAGNETIC ENCODERS SPEEDCONNECT

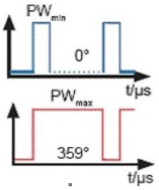
The determination of angular position and signal generation is realized by an intelligent CMOS Hall sensor. A diametrical polarized magnet induces its magnetic field into the sensor. It rotates and provides a conditioned signal to the integrated electronic.



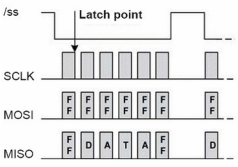
Analog



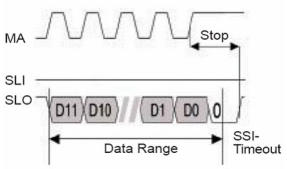
Incremental



PWM



SPI



SSI

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

- **Contactless**
- **Travel up to 360°**
- **Kit version**
- **Different connectors**

	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	5VDC ±10% 3,3VDC ±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
Operating temperature	-40 to +85°C
Housing	PA66

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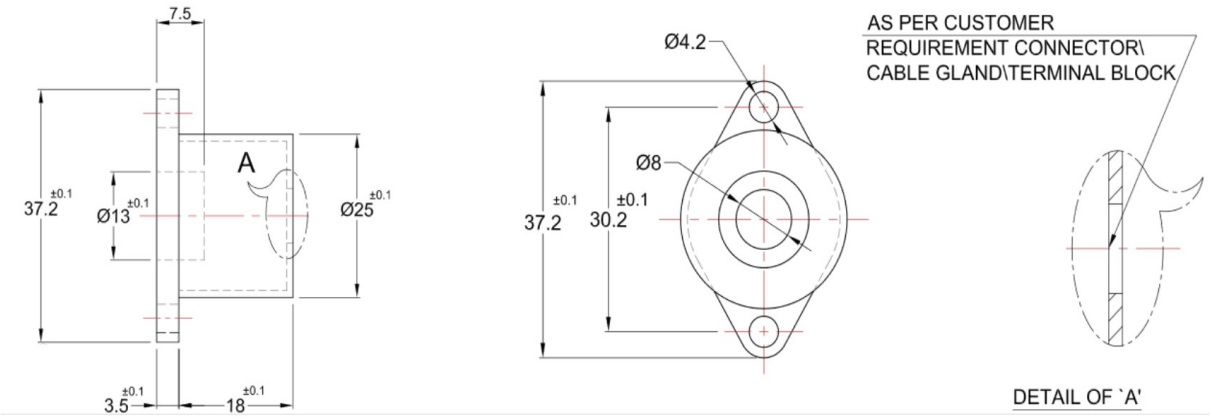
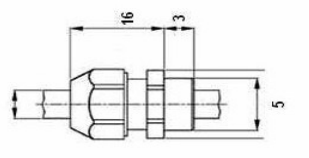
Plan 25 RSK

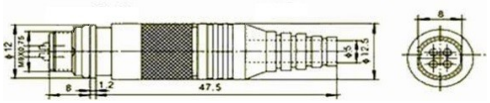


Interconnections for encoders 25 RSK

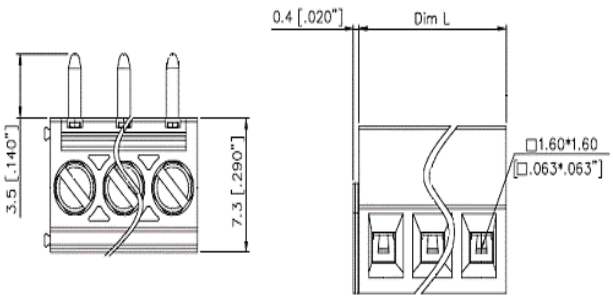
Cable gland (OCG)



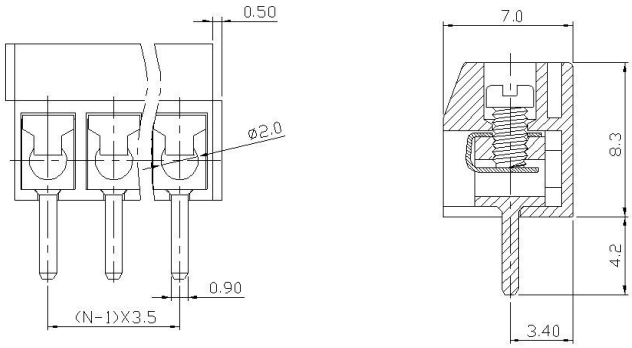
Miniature connector (OCM)



Axial terminal block (OCTA)



Radial terminal block (OCTR)



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Magnet Holder

The magnet holder is linking the magnet to the application shaft. The holder is made from stainless steel in tube shape and it is slotted on one end.They are available with different diameters or customized shapes.The magnet is already glued on top of the magnet holder. The slotted end will be slide over the application shaft.

The distance between magnet and membrane of the KIT version should be ideally 1.5 mm

Wirings

Analog / PWM	1	2	3
OCG	Supply (red)	Output (brown)	Ground (black)
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 -

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Order code	Standard					Options	
Sensor Ø 25mm	25						
Analog **Incremental** **SPI** **SSI** **PWM**		A I P Y W					
Range			RS				
Kit version				K			
Power supply / Output signal : **5VDC±10% / 0-5V (ratiométrique)** **9-30VDC / 0-5V** **15-30VDC / 0-10V** **15-30VDC / 4-20mA** **5VDC±10% / PWM** **5VDC±10% / TTL** **9-30VDC / Open Collector** **5VDC±10% / Open Collector** **5VDC ±10% / SPI 3 wires (14 bits)** **5VDC ±10% / SPI 4 wires (14 bits)** **3,3VDC ±10% / SPI 4 wires (14 bits)** **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 24OC S 05OC 05 SPI S14 E 05 SPI S14 E 33 SPI S14 05 SSI S12 24 SSI S12		
Interconnections : **Cable gland with round cable 1m** **Miniature connector** **Terminal block - Axial** **Terminal block - Radial**						 OCG OCM OCTA OCTR	
Magnet holder (optional) **Magnet holder Ø 4mm** **Magnet holder Ø 6mm** **Magnet holder Ø 8mm** **Magnet holder Ø 1/8”** **Magnet holder Ø 1/4”**							 MH004 MH006 MH008 MH1_8 MH1_4
Example of reference:	**25**	**A**	**RS**	**K**	**S0505**	**OCG**	**MH006**

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