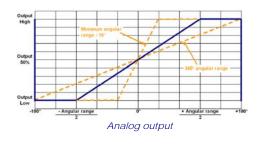
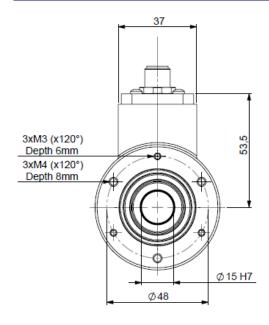
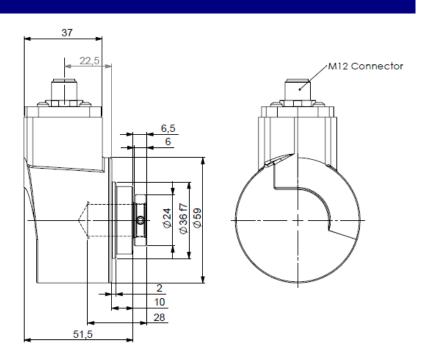
PRELIMINARY - MAGNETIC ANALOG ABSOLUTE MULTI TURN ENCODERS, THK5 RANGE

- Extra-flat encoder, blind shaft Ø 14 mm or 15mm, reduction hubs available: 6, 8, 10, 12mm
- Application fields: agriculture, construction, forestry vehicles, medical, solar panels...
- Robustness and excellent resistance to shocks / vibrations.
- Standard IP 65 protection (IP69K option).
- Operating temperature range: -20°C to 85°C.
- Magnetic technology.
- Universal supply 5 to 30Vdc.
- Available resolution up to 12 bits per revolution.
- Turn counting up to 16 bits.
- Also available: PWM, SSI and CANopen outputs.
- Standard M12 or cable output.



STANDARD THK5 DIMENSION





MECHANICAL DATA

	Cover : steel	
Material	Body: aluminium	
	Shaft : stainless steel	
Bearings	6 803 serie	
Maximum load	Axial: 20 N	
Waximumioad	Radial: 50 N	
Shaft inertia	$\leq 2,2.10^{-6} \text{kg.m}^2$	
Torque	≤ 6.10 ⁻³ N.m	
Permissible max. speed	6 000 min-1	
Continuous max. speed	6 000 min ⁻¹	
Shock (EN60068-2-27)	≤ 2000m.s ⁻² (during 6 ms)	

Vibration (EN60068-2-6)	≤ 200m.s ⁻² (10 2 000 Hz)			
EMC	EN 61000-6-4, EN 61000-6-2			
Isolation	100V (1 min)			
Weight	0,500 kg			
Operating temperature	- 20 + 85 °C (encoder T°)			
Storage temperature	- 20 + 85 °C			
Protection(EN 60529)	IP 65			
Torque (ring pressure screw)	nominal: 1.5N.m, break: 2.0N.m			
Theoretical mechanical lifetime 10° turns (F _{axial} / F _{radial})				
10 N / 25 N	185			
20 N / 50N	24			



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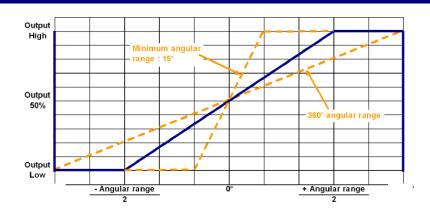
Tél Fax Mail Web +33 (0)3 88 20 87 87 info@beisensors.com



PRELIMINARY - MAGNETIC ANALOG ABSOLUTE MULTI TURN ENCODERS, THK5 RANGE

ELECTRICAL DATA				
Power supply	5V or 10-30Vdc or 15-30Vdc	Introduction	<1s	
Comsumption without load	< 40mA (at 24Vdc)	Despense time	< 10 ms (5L2 & 3L1 electronic)	
Resolution	12 bits	Response time	< 1ms (other electronics)	
Accuracy	± 0.3 %	Advised load	>10kOhms (Voltage output)	
Repeatability	± 0.1 %	Advised iOdd	500Ohms (current output)	

ANALOG OUTPUT



CONNECTION

	+Vcc	0V	Analog output	Ground
L7 - cable	Brown BN	White WH	Green GN	General shielding
L4 – M12 4 pinouts	2	1	3	Connector body

ORDERING REFERENCE (Contact the factory for special versions, ex : stainless steel version, connections...)

	Mechanics	Supply Output stage	Direction	Resolution	Connection	Connection orientation
THK5: Absolute multi turn encoder	14: 14mm blind shaft 15: 15mm blind shaft option	3L1: 15 to 30Vdc 010V output 5L2: 10 to 30Vdc 0.54.5V output 3L3: 15 to 30Vdc 420mA output 3L4: 15 to 30Vdc 020mA output 2LR: 5V +/- 5% Ratio 1090% voltage supply	1: CW Clockwise 2: CCW Counter- clockwise	xxxxx: Calibrated angle in degree Ex: 03600 3600°	L4: M12 - 4 pinouts L7: cable output	R: Radial connector R020: Radial Cable 2m
Ex: THK5_	14 //	3 L1	1 //	03600 //	L3	R020

Made in France

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