

TCW4 SSI

SSI MULTI-TURN MODULAR



Features

- With its two-part design, the ACW4 absolute single-turn offers maximum flexibility for installation
- Rugged and excellent resistance to shock and vibration
- Robust, proven magnetic technology
- Environmentally resistant, IP 67 standard (IP69K option)
- Extended operating range from -20° C to 85° C
- Uses universal supply 5 to 30 VDC SSI Output
- Available resolution 12 bits per turn and up to 13 bits of turns counting.
- Variety of magnet holders available

Applications

- Factory Automation
- Process Automation





Mechanical

Terminations	PUR cable with M12 5 pin connector	
Housing	Macromelt PA638	
Weight	0,150 kg	

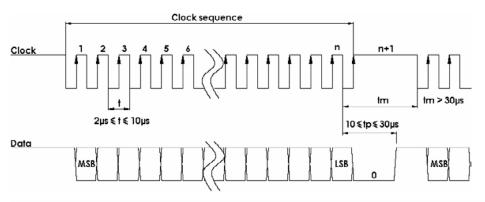
Electrical

Electrical Angle	360°			
Output Function	SSI, 10% to 90% Duty Cycle			
Minimal Cycle Time	1ms			
Resolution	Resolution 12 bits per turn and up to 13 bits of turns counting			
Accuracy	+/-0.3% on 360°			
Repeatability	+/-0.1% on 360°			
Supply Voltage	5V to 30 Vdc			
Start-up	<1s			
Response time	< 10 ms			
Recommended Load	> 10 kOhms			
Isolation	500 Veff			
Current Requirements	< 40mA			
Protection	Overvoltage Protection: Yes Reverse Polarity Protection: Yes Short Circuit Protection: Yes			
EMC	IEC 61000-4-2 Electrostatic discharge (ESD) 4 kV, 8 kV IEC 61000-4-3 Electromagnetic fields 10 V/m (80MHz - 1GHz), 3V/m (1.4GHz - 2GHz), 1V/m (2GHz - 2.7GHz) IEC 61000-4-4 Electrical fast transients (burst) 1 kV IEC 61000-4-6 Conducted disturbances, induced by RF-fields 10 Veff.			

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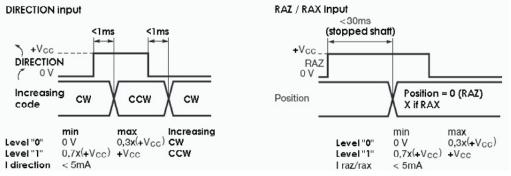


SSI Transmission



	Transmission	Transmission up to 400m* at 100kHz in function of the cable characteristics.			
•	Cable	High security of transmission by using shielded cable and twisted pairs.			

 * Consult us for length > 100m.

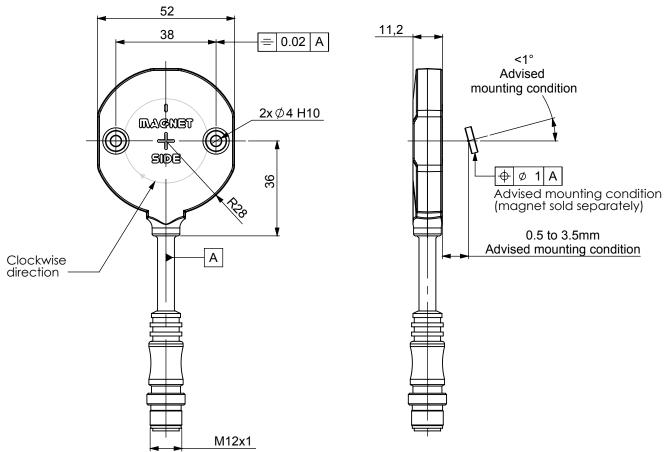


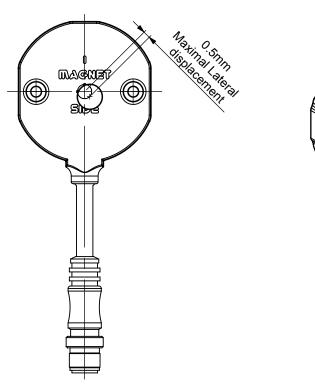
Note: Connect DIRECTION and RAZ/RAX to a potential (RAZ at 0V if not used)

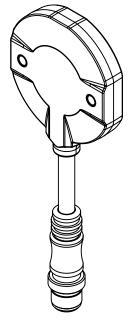


All Dimensions are in millimeters.

Shaft system with magnet to be ordered separately (see Accessories).









Ref.	Туре	+ Vcc	0 V	Clk+	Data+	RAZ	Data-	Clk-	Direction	Ground	
S5	SSI cable PUR 8230/050	BN/GN Brown/ Green	WH/GN White/Green	GN Green	GY Gray	BU Blue	PK Pink	BN Brown	WH White	General shielding	

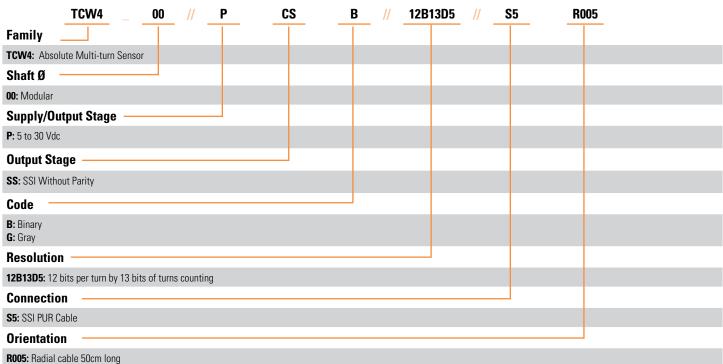


Stray magnetic fields can interfere with accuracy and repeatability of the signal.



Example: TCW4 00//PSSB//12B13D5//S5R005

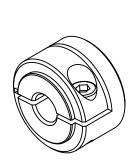
(Contact the factory for special versions, ex: dimensions, connections...)

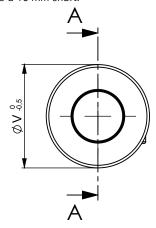


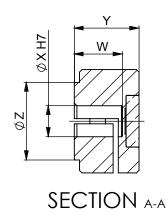


Female magnet support + Magnet 8810/013 Ordering p/n : M9105/Kxx

KXX: Where XX is the shaft mounting diameter in mm. Standards are 06, 08, 10, 11, and 14 mm. i.e M9105/K10 mounts to a 10 mm shaft.

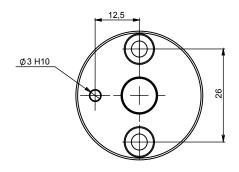


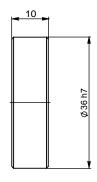


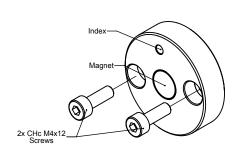


	M9105/K06	M9105/K08	M9105/K10	M9105/K11	M9105/K14
W	6 H7	8 H7	10 H7	11 H7	14 H7
X	20	20	26	26	29
Y	12,5	12,5	14	14	14
Z	15	15	15	15	18

Frontal magnet support + Magnet 8810/013 Ordering p/n : M9105/F26

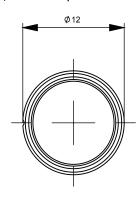


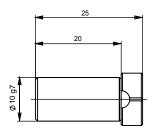




Male magnet support + Magnet 8810/013

Ordering p/n: M9105/M10-01

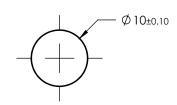


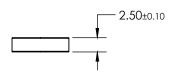




Magnet Ordering p/n: 8810/013







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