

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

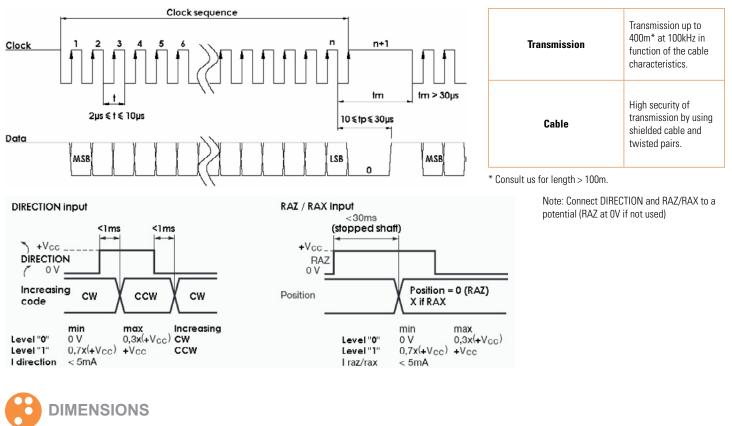
CE

SPECIFICATIONS

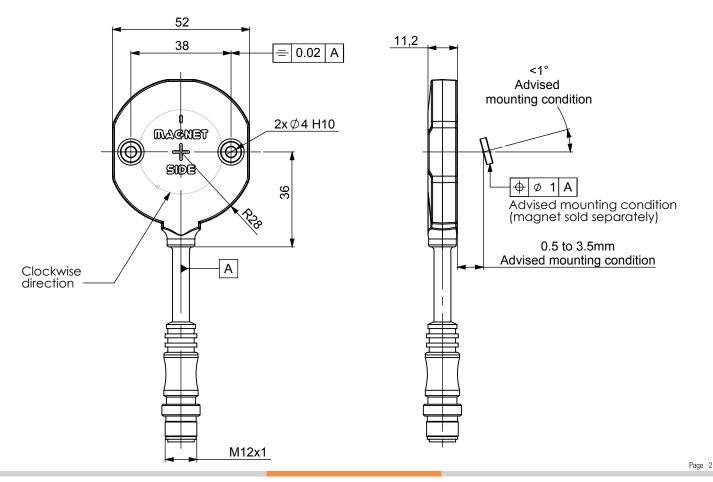
Mechanical

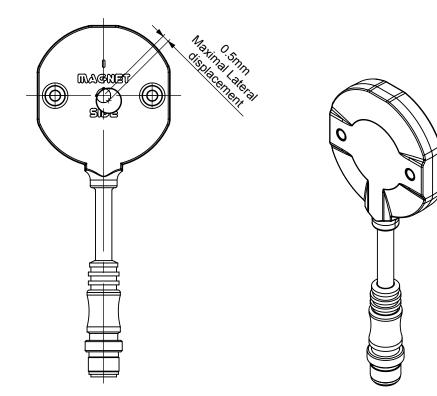
Terminations	PUR cable with M12 5 pin connector							
Housing	Macromelt PA638							
Weight	0,150 kg							
Electrical								
Electrical Angle	360°							
Output Function	SSI, 10% to 90% Duty Cycle							
Minimal Cycle Time	1ms							
Resolution Resolution 12 bits per turn and up to 13 bits of turns 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.							

SSI Transmission



All Dimensions are in millimeters. Shaft system with magnet to be ordered separately (see Accessories).







CONNECTOR PIN OUT

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.



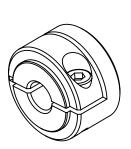
Example : TCW4_00//PSSB//12B13D5//S5R005

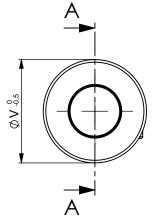
(Contact th							t the factory f	e factory for special versions, ex : dimensions, connections)				
	TCW4	00	// P	CS	В	//	12B13D5	//	S 5	R005		
Family												
TCW4: Abso	lute Multi-turn Se	nsor										
Shaft Ø												
00: Modular												
Supply/Ou	utput Stage -											
P: 5 to 30 Vdc	2											
Output Sta	age ———											
SS: SSI Witho	out Parity											
Code 🚽												
B: Binary G: Gray												
Resolutio	n											
12B13D5: 12	bits per turn by 13	B bits of turns of	counting									
Connectio	on ———											
S5: SSI PUR C	Cable											
Orientatio	on											
R005: Radial of	cable 50cm long											

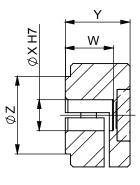


Female magnet support + Magnet 8810/013 Ordering p/n : M9105/Kxx

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.





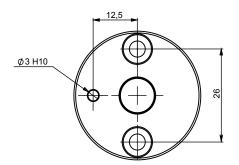


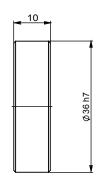
SECTION A-A

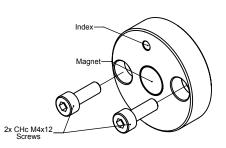
	M9105/K06	M9105/K08	M9105/K10	M9105/K11	M9105/K14
W	6 H7	8 H7	10 H7	11 H7	14 H7
X	20	20	26	26	29
Y	12,5	12,5	14	14	14
Z	15	15	15	15	18

Page 4

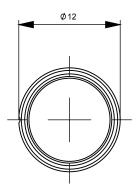
Frontal magnet support + Magnet 8810/013 Ordering p/n : M9105/F26

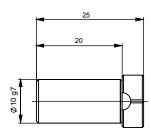


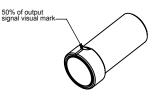




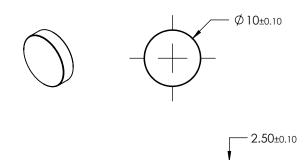
Male magnet support + Magnet 8810/013 Ordering p/n : M9105/M10-01







Magnet Ordering p/n : **8810/013**



Page 5

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas +1 (800) 350 2727 sales.beisensors@sensata.com EMEA

position-info.eu@sensata.com +33 (3) 88 20 8080

Asia Pacific

sales.isasia@list.sensata.com China +86 (21) 2306 1500 Japan +81 (45) 277 7117 Korea +82 (31) 601 2004 India +91 (80) 67920890 Rest of Asia +886 (2) 27602006 ext 2808

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