

TCW4 ANALOG

ANALOG ABSOLUTE 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 Analog output
- Available Resolution up to 12 bits per turn with up to 16 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		

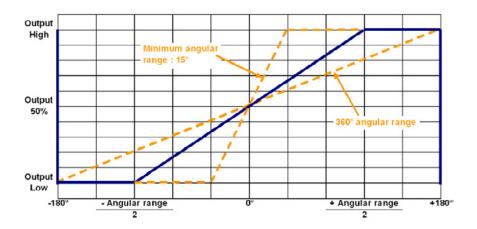
Electrical

Electrical Angle	3600			
Output Function	0– 10 Vdc, 0.5 to 4.5 Vdc, or 4 – 20 mA			
Minimal Cycle Time	1ms			
Resolution	Multi-turn, 12 bits per turn with up to 10 turns of turns counting			
Accuracy	+/-0.3% on 360°			
Repeatability	+/-0.1% on 360°			
Supply Voltage	5-30 Vdc or 15-30 Vdc			
Start-up	<1s			
Response time	< 10 ms (5L2 and 3L1 electronics), <1ms (All other electronics)			
Recommended Load	> 10 kOhms (voltage out), 500 Ohms (current out)			
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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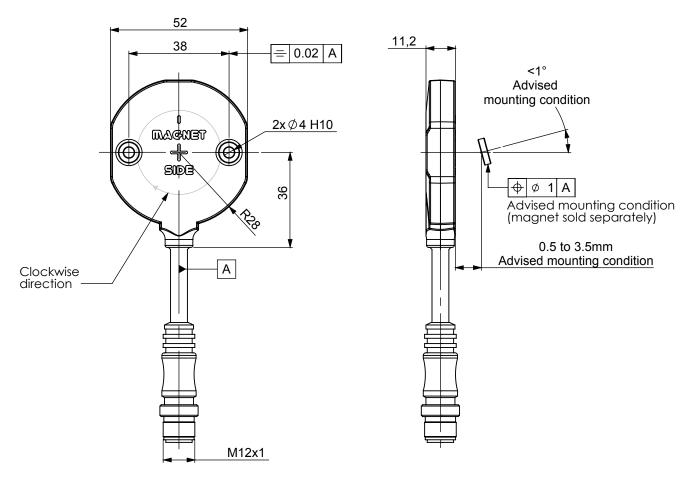
Analog Output

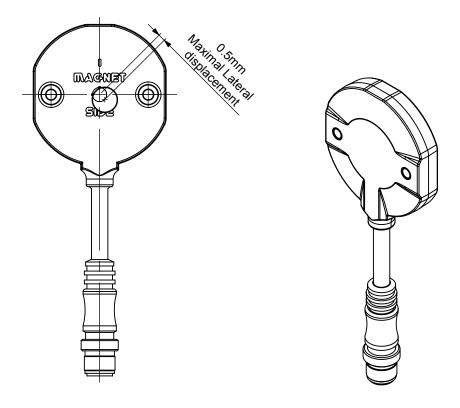


DIMENSIONS

All Dimensions are in millimeters.

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







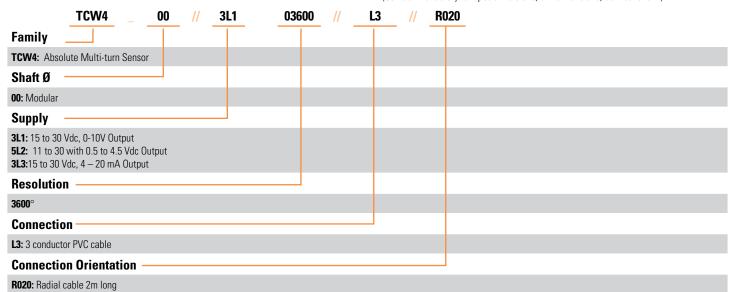
Funtion	Vcc	0V	Analog Out	Ground
Color	Brown BN	White WH	Green GN	Shield



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

Example: TCW4 00//3L11//14//L3R020

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

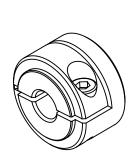


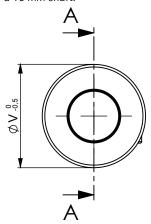


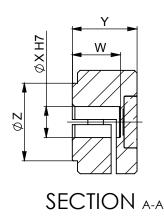
ACCESSORIES

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
Υ	12,5	12,5	14	14	14
Z	15	15	15	15	18