

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

CE

SPECIFICATIONS

Mechanical

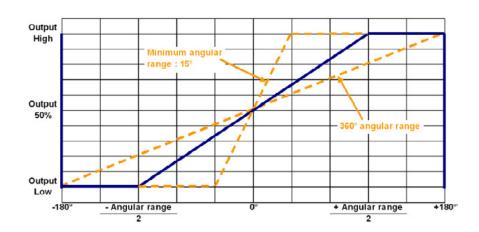
Terminations	PUR cable with M12 5 pin connector						
Housing	Macromelt PA638						
Weight	0,150 kg						

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.					



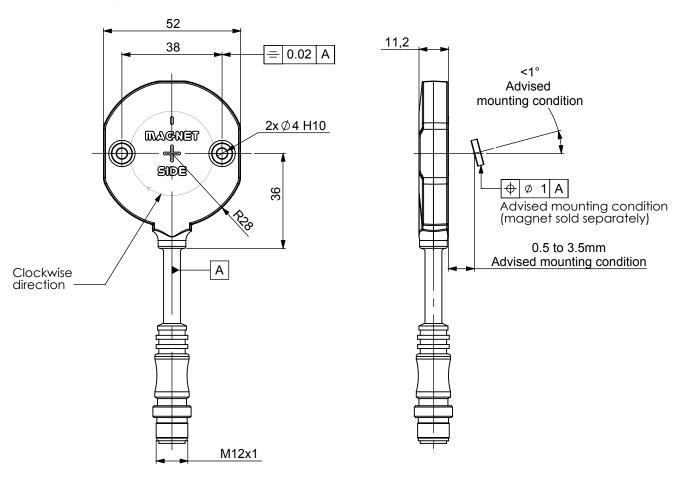
Analog Output

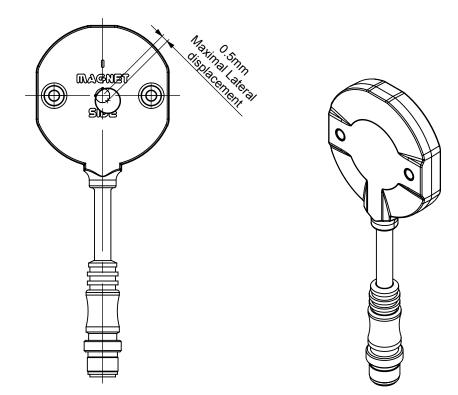




DIMENSIONS

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







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



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



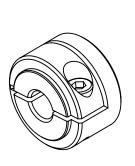
(Contact the factory for special versions, ex : dimensions, connections...)

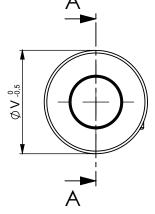
	TCW4	00	//	3L1	03	600	//	L3	//	R020
Family			_				_		-	
TCW4: Abso	lute Multi-turn Sens	sor								
Shaft Ø										
00: Modular										
Supply										
5L2: 11 to 30	Vdc, 0-10V Output) with 0.5 to 4.5 Vdc Vdc, 4 – 20 mA Outp									
Resolutio	n									
3600 °										
Connectio	on ———									
L3: 3 conduct	or PVC cable									
Connectio	on Orientation									
R020: Radial	cable 2m long									

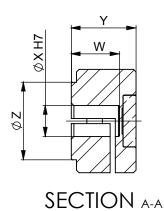


Female magnet support + Magnet 8810/013 Ordering p/n : M9105/Kxx

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.



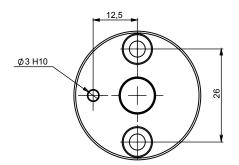


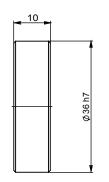


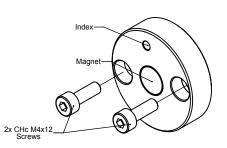
	M9105/K06	M9105/K08	M9105/K10	M9105/K11	M9105/K14
W	6 H7	8 H7	10 H7	11 H7	14 H7
X	20	20	26	26	29
Y	12,5	12,5	14	14	14
Z	15	15	15	15	18



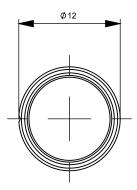
Frontal magnet support + Magnet 8810/013 Ordering p/n : M9105/F26

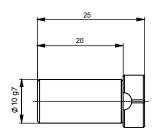


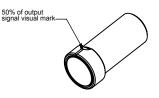




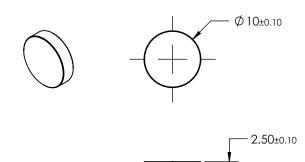
Male magnet support + Magnet 8810/013 Ordering p/n : M9105/M10-01







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



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