ACW4 ANALOG

ANALOG ABSOLUTE SINGLE TURN MODULAR SENSOR

Sensata-BEI Sensors' ACW4 sensors provide absolute single turn measurement with an analog output in an over-molded, modular design that offers flexibility and protection from the environment.



Features

 With its two-part design, the ACW4 absolute single-turn offers maximum flexibility for installation

Sensata

Technologies

- Rugged and excellent resistance to shock and vibration
- Robust, proven magnetic technology
- Environmentally resistant, IP 67 standard (IP69K option)
- Extended operating range from -40° C to 85° C
- Uses universal supply 5 to 30 VDC Analog output
- Available Resolution up to 12 bits per revolution
- Variety of magnet holders available

Applications

- Factory Automation
- Process Automation

CE



Mechanical

Terminations	PVC cable	
Housing	Macromelt PA638	
Weight	0,150 kg	

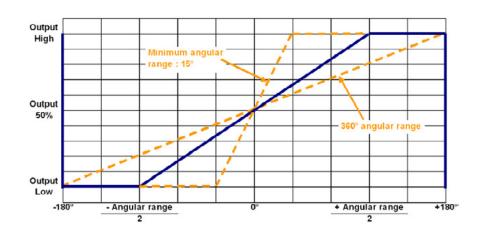
Electrical

Electrical Angle	360°		
Output Function	0– 10 Vdc, 0.5 to 4.5 Vdc, or 4 – 20 mA		
Minimal Cycle Time	1ms		
Resolution	Single –turn, 12 bits		
Accuracy	+/-0.3% on 360°		
Repeatability	+/-0.1% on 360°		
Supply Voltage	5Vdc, 10 to 30 Vdc, or 15 to 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	ements < 40mA		
Protection	n 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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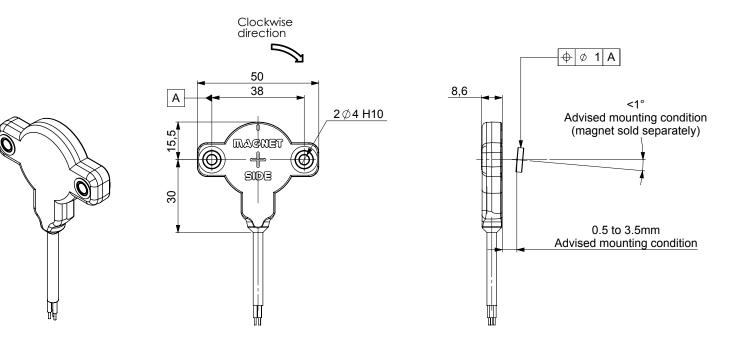
Analog Output





DIMENSIONS

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





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



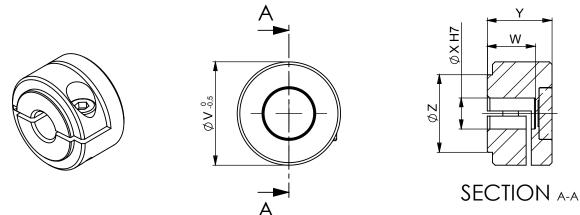
Stray magnetic fields can interfere with accuracy and repeatability of the signal.

ORDERING OPTIONS	Ex	ample: ACW4_00//3	L11//00360//L3R020	
	(Contact the factory for special versions, ex : dimensions, connections)			
ACW4 _ 00 // 3L1 _ 1 //	00360 //	L3 R020		
Family				
ACW4: Absolute Single-Turn Sensor				
Shaft Ø				
00: Modular				
Supply				
3L1: 15 to 30 Vdc, 0-10V Output 5L2: 10 to 30 Bdc, 0.5 -4.5 V Output 3L3: 15 to 30 Vdc, 4 - 20 mA Output 2LR: 5Vdc +/- 5%, Ratiometric 10 - 90% of Vcc				
Direction				
1: CW, Clockwise positive 2: CCW, Counterclockwise positive				
Range				
00360: 360° range				
Connection				
L3: 3 conductor PVC cable				
Connection Orientation				
R020: Radial cable 2m long				



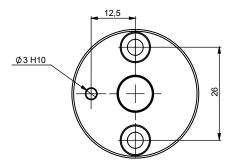
Female magnet support + Magnet 8810/013 Ordering p/n : M9105/Kxx

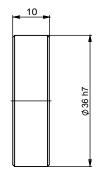
KXX: Where XX is the shaft mounting diameter in mm. Standards are 06, 08, 10, 11, and 14 mm. i.e M9105/K10 mounts to a 10 mm shaft.

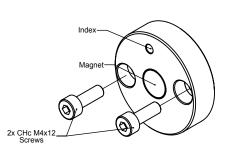


	M9105/K06	M9105/K08	M9105/K10	M9105/K11	M9105/K14
W	6 H7	8 H7	10 H7	11 H7	14 H7
Х	20	20	26	26	29
Y	12,5	12,5	14	14	14
Z	15	15	15	15	18

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

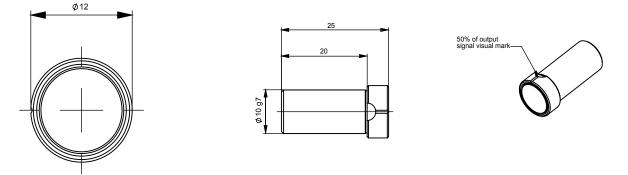




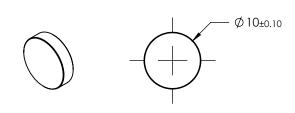


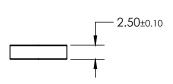


Male magnet support + Magnet 8810/013 Ordering p/n : M9105/M10-01



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





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