



ACW4 ANALOG

ANALOG ABSOLUTE SINGLE 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 -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



SPECIFICATIONS

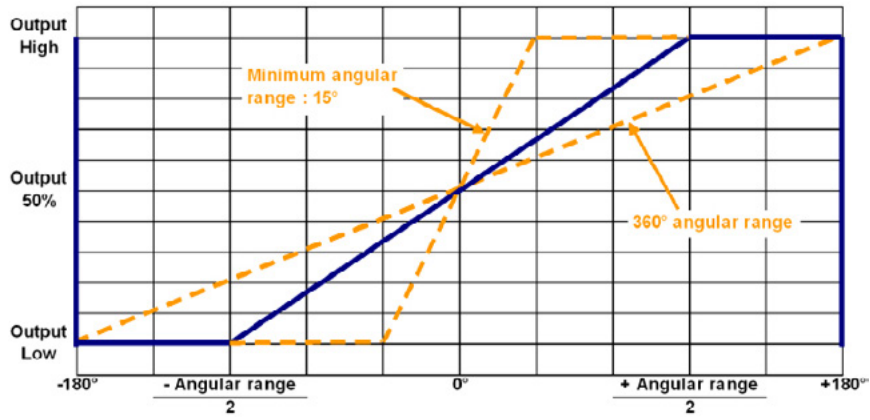
Mechanical

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

Electrical

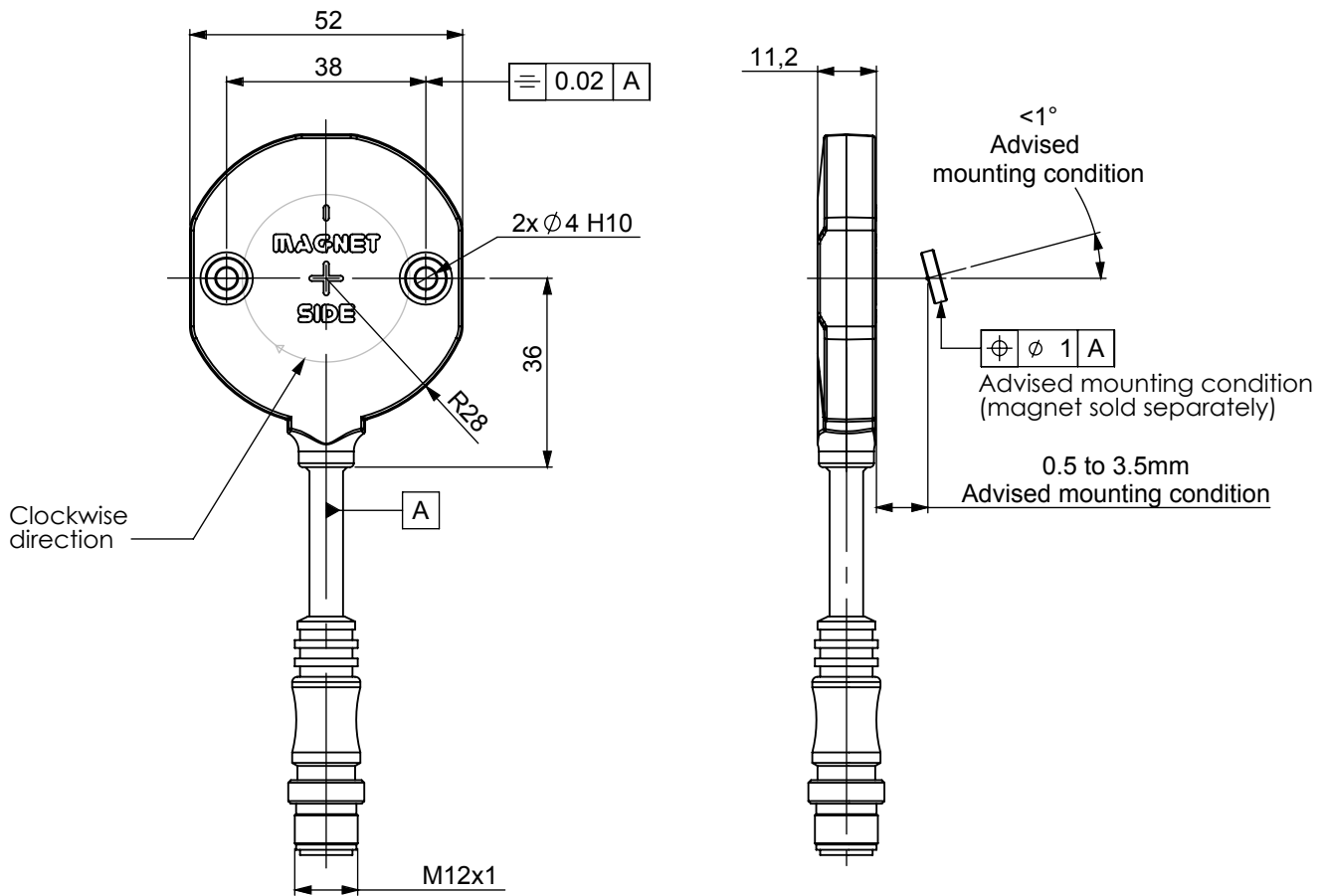
Electrical Angle	360°
Output Function	0– 10 Vdc, 0.5 to 4.5 Vdc, or 4 – 20 mA
Minimal Cycle Time	1ms
Resolution	Single –turn, 12 bits
Accuracy	+/-0.3% on 360°
Repeatability	+/-0.1% on 360°
Supply Voltage	5Vdc, 10 to 30 Vdc, or 15 to 30 Vdc
Start-up	< 1s
Response time	< 10 ms (5L2 and 3L1 electronics),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





CONNECTOR PIN OUT

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

NOTES

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



ORDERING OPTIONS

Example : ACW4_00//3L11//14//L3R020

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

Family	ACW4	00	//	3L1	1	//	14	//	L3	R020
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									
Resolution	14: 14bits single turn position									
Connection	L3: 3 conductor PVC cable									
Connection Orientation	R020: Radial cable 2m long									

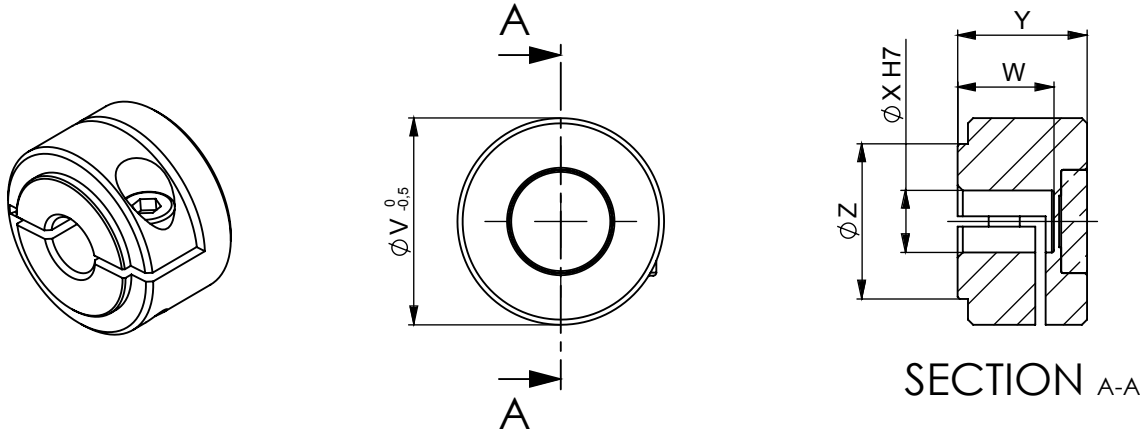


ACCESSORIES

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
Y	12,5	12,5	14	14	14
Z	15	15	15	15	18