

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





Mechanical

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

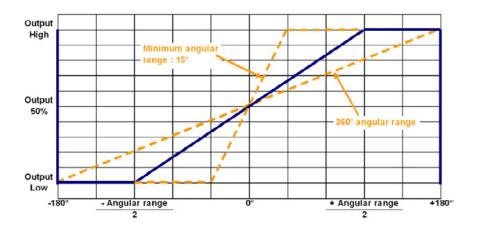
Electrical

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.			

Page 1



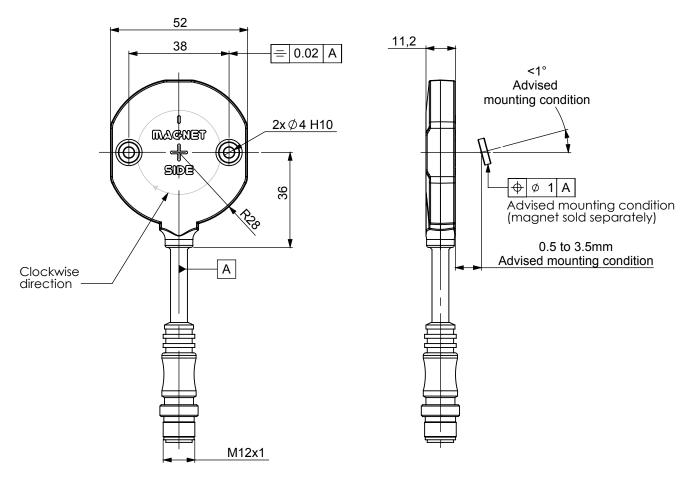
Analog Output

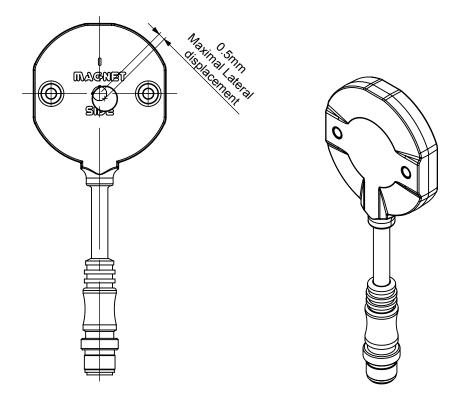


DIMENSIONS

All Dimensions are in millimeters.

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







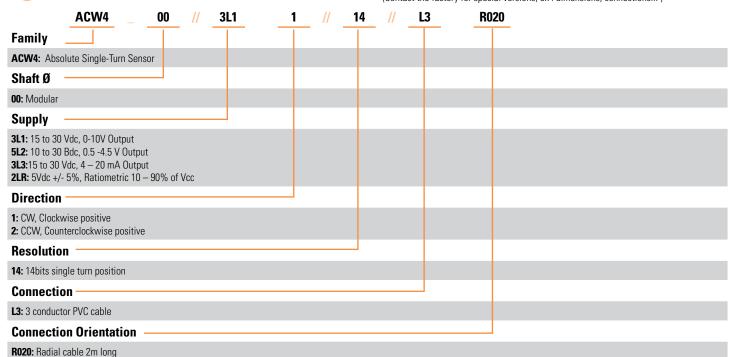
Funtion	Vcc	0V	Analog Out	Ground
Color	Brown BN	White WH	Green GN	Shield



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

Example: ACW4 00//3L11//14//L3R020

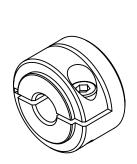
(Contact the factory for special versions, ex: dimensions, connections...)

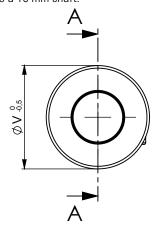


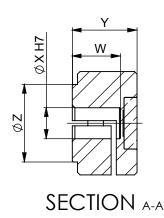


Female magnet support + Magnet 8810/013 Ordering p/n: M9105/Kxx

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.

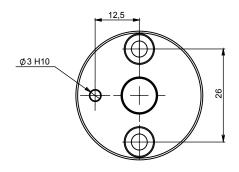


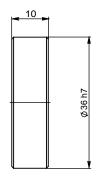


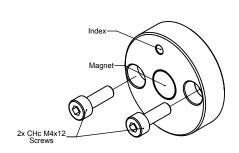


	M9105/K06	M9105/K08	M9105/K10	M9105/K11	M9105/K14
W	6 H7	8 H7	10 H7	11 H7	14 H7
Х	20	20	26	26	29
Y	12,5	12,5	14	14	14
Z	15	15	15	15	18

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

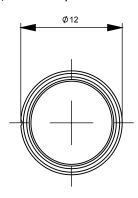


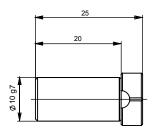




Male magnet support + Magnet 8810/013

Ordering p/n: M9105/M10-01

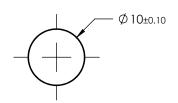


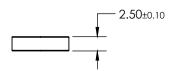




Magnet Ordering p/n: 8810/013







Page 5

Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Industrial Hall Effect/Magnetic Sensors category:

Click to view products by Sensata manufacturer:

Other Similar products are found below:

GT-13013 GT-14114 GT-14123 SR4P2-C7 GT-12076 GT-14049 GT-14067 GT-14132 GT-18030 103FW12-R3 SMSA2P30CG GN 55.2-SC-8-3 MZR40178 103FW41-R1 SR-10018 PST360G2-1S-C0000-ERA360-05K 103SR14A-1 MZT7-03VPS-KR0 MZT7-03VPS-KW0 MZT8-28VPS-KP0 55505-00-02-B GN 55.2-ND-15-3 GN 55.2-ND-18-3 GN 55.2-ND-4-3 GN 55.2-ND-8-3 GN 55.2-SC-10-3 GN 55.4-ND-10-7,5-2 GN 55.4-ND-26-20,3-5 GN 55.4-ND-7,5-4-1,5 101MG7-BP A1389LUA-9-T A1233LK-T MXM1120KIT MXM1120SOKIT A1220LLHLT-T AA004-00E AA006-02E MM12-60APS-ZUK ACX04-F99-I-V15 GN 55.1-SC-24-11.5-4 MZA70155 MZR40158 PW520000 ADH025-00E MZT7-03VPS-KP0 MZT8-03VPS-KR0 MZT8-03VPS-KP0 RZT7-03ZRS-KP0 RZT7-03ZRS-KW0