



FEATURES AND BENEFITS

IdentiCal[™] Interchangeable Sensor

IdentiCal[™] Interchangeable Sensors eliminate the management of calibration data and allow convenient Interchangeability of individual sensors. With standardized sensitivity and offset, there is no need to enter new parameters for the parameters for high volume use.

Rugged for Harsh Environment

The 11206AC is robust to perform well in harsh environments. The 6061-T6 case with electroless nickel finish plus a PTFE cable with a shield bonded to the case provide improved resistance to EMI, lightning, or other disturbances.

High Accuracy and Linearity over Wide Temperature Range

The output of the 11206AC is directly proportional to the rotational rate about its axis. The DC-coupled output is fully scaled, referenced, and temperature compensated. When used in demanding temperature environments, gain compensation makes the 11206AC one of the most accurate angular rate gyros available.

11206AC Angular Rate Sensor

SPECIFICATIONS

- Rugged Uniaxial Angular Rate Gyro
- Silicon MEMS Gyro, DC Response
- ±50°/sec to ±180°/sec Range
- Interchangeable Sensors, Identical Calibrations
- ±0.5% Typical Accuracy from -40°C to +85°C
- 8.5 to 36Vdc Excitation Voltage

The TE Connectivity model 11206AC Angular Rate Sensor is a rugged uniaxial analog gyroscope capable of accurately measuring angular rate under severe environmental conditions. The sensor is packaged in a tough, compact housing with fully encapsulated and protected electronics and a shielded 22 AWG cable. Its cubical form allows mounting with the sensing axis oriented in any direction.

The model 11206AC Gyroscope Sensor provides enhanced accuracy and durability features to meet the challenges of harsh installations. In addition to its robust construction, increased precision is achieved through enhanced offset and gain compensation over full operating temperature range

Each angular rate sensor has been accurately tested and compensated over the full -40°C to +85°C temperature range and has a nominal full scale output swing of $\pm 2.25V$. The zero rate output level is nominally +2.5 Volts.

PERFORMANCE SPECIFICATIONS

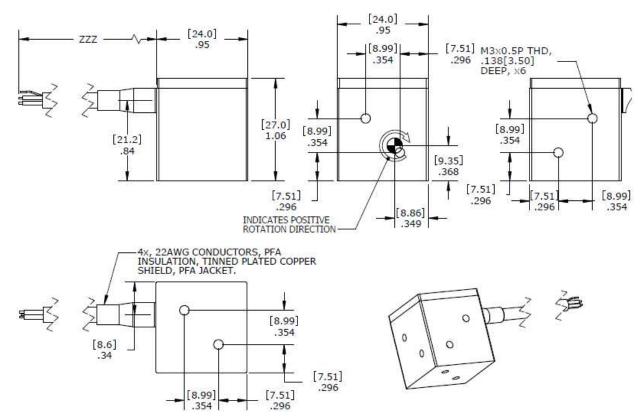
All values are typical at $+24^{\circ}$ C and 8.5Vdc excitation for L000 option or 12Vdc excitation for L001 option unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Dash Number Range (deg/sec) Sensitivity (mV/deg/sec) Frequency Response (Hz) Non-Linearity (%FSO) Alignment (deg) Influence of Linear Acceleration (Shock Limit (g) Noise Density (°/sec/√Hz)	-R050 ±50 25.0 ±1% 0-50 ±0.1 ±1.5 0.2 ±1500 0.05	-R180 ±180 10.0 ±1% 0-50 ±0.1 ±1.5 0.2 ±1500 0.05	Notes See Ordering Info IdentiCal, see note 1 below Upper cutoff -3dB BFSL Deviation from ideal axes Affects offset 0.5msec pulse		
ELECTRICAL Zero Acceleration Output (V) Excitation Voltage (Vdc) Excitation Current (mA) Rejection Ratio (dB) Full Scale Output Voltage (Vpk) Insulation Resistance (MΩ) Output Impedance (Ω) Turn On Time (msec) Ground Isolation	2.50 ±0.10 8.5 to 36 for L00 12 to 36 for L00 10 >120 0.25 to 4.75 >100 100 <100 Isolated from Mo	1 option	No load, quiescent DC lout = 1mA, cap load <1000pF @100Vdc		
ENVIRONMENTALThermal Zero Shift (°/sec)±3.0 typical (±6.0 max)Thermal Sensitivity Shift (%)±1.0Operating Temperature (°C)-40 to +85Humidity (Active Element & Electronics)Hermetically Solder SealHumidity (Housing)Epoxy Sealed, IP65Electromagnetic CompatibilityEN 61000-6-2: Immunity for Industrial EnvironmentsEN 61000-6-4: Emission Standard for Industrial Environments		-40 to +85°C -40 to +85°C			
PHYSICAL Case Material Electroless Nickel Plated 6061-T6 Aluminum Cable 4x, #22 AWG Conductors, PTFE Insulated, Tin Plated Shield, Weight (cable not included) 38 grams Mounting 2x M3-0.5 Machine Screws Mounting Torque 5 lbf-in (0.56 N-m) Note 1 IdentiCal are interchangeable, all units have same range and sensitivity			PTFE Jacket		
Calibration supplied: CS-ARLIN NIST Traceable Calibration with Sensitivity and Offset					
Optional accessories: 341		Plate for Flange Mounting			

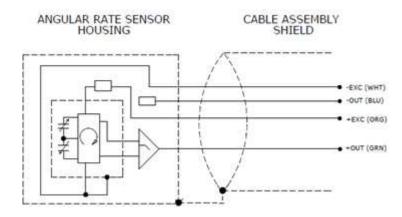
The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. TE Connectivity reserves the right to make changes without further notice to any product herein. TE Connectivity makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does TE Connectivity assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. TE Connectivity does not convey any license under its patent rights or the rights of others.



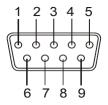
DIMENSIONS



SCHEMATIC



Option D: DB9 Male Connector



Pin 1: +OUTPUT SIGNAL Pin 2: -OUTPUT SIGNAL Pin 3: NOT USED Pin 4: NOT USED Pin 5: NOT USED Pin 6: NOT USED Pin 7: NOT USED Pin 8: +EXCITATION VOLTAGE Pin 9: -EXCITATION VOLTAGE (GND)



Page 3

ORDERING INFORMATION

11206AC	RXXX	BYYY	TZZZA	L000	
Range R050 = ±50deg/sec R180 = ±180deg/sec					
Bandwidth B050 = 0 to 50Hz (standard option) BYYY = Contact factory for wider bandwidth option					
Cable Length T004 = 4ft cable (standard option) TZZZ = Contact factory for custom length (ZZZ in feet)					
Cable Termination A = None, flying leads D = 9-pin DB9 male connector					
Dielectric Rating L000 = 2kV fast transient L001 = 4kV fast transient	(standard option))			

Example; 11206AC-R180-B050-T004A-L000

Model 11206AC, ±180deg/sec range, 0-50Hz bandwidth, 4ft cable length, flying leads, 2kV dielectric rating

神州融安科技 (北京)有限公司

电话:010-62127688、82057633

地址:北京市海淀区花园路2号牡丹科技楼B座三层B308室

网址: www.ronganchina.cn

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Phone +1-800-522-6752 Email: customercare.akrn@te.com

EUROPE

MEAS France SAS a TE Connectivity Company Phone: +49-800-440-5100 Email: customercare.tlse@te.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Phone: +86-400-820-6015 Email: <u>customercare.shzn@te.com</u>

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Accustar, American Sensor Technologies, AST, ATEXIS, DEUTSCH, IdentiCal, TruBlue, KPSI, Krystal Bond, Microfused, UltraStable, Measurement Specialties, MEAS, Schaevitz, TE Connectivity, TE, and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and company names mentioned herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

11/2018

