General Purpose

ADTs

The Model 0605 is an absolute rotary position transducer based upon differential capacitance. It has been designed to provide a simple means of inputting angular position into analog or digital systems. Internal voltage regulation along with a factory set full scale output allows the direct interchanging of units without system recalibration. The Model 0605 allows great flexibility in supporting individual customer's requirements. With eight different full scale ranges from 12° to 300°, five different outputs, termination choices, and other options, there are over 640 available versions of this design. For each range the user can be supplied with one of five specified outputs. For unique applications, when the normal configurations are not suitable, custom ranges or outputs can be specified.





KEY FEATURES

- Ranges from 12º to 300º
- Non-linearity < 0.25%
- 3 KHz Frequency Response
- DC Voltage/4-20 mA Output

PERFORMANCE SPECIFICATIONS

	ACCURACY	< ±0.25% specified range	RANGES	12°, 30°, 60°, 90°, 120°, 180°, 270°, 300°	
	Includes: Non-linearity, Hysteresis, Repeatability	< ±1% FS on 300° units	ROTATION	CW or CCW	
and unit to unit variation at reference temperature.		FREQUENCY RESPONSE	3 KHz Min., -3 db.		
	reference temperature.		RESOLUTION	Infinite	

MECHANICAL SPECIFICATIONS

MOMENT OF INERTIA (Shaft)	0.6 gm. cm. ²	WEIGHT 6 oz. Max.	
TORQUE	0.05 gm. cm. Running 5.0 gm. cm. Starting	MATERIALS	
SHAFT LOADING	7 lb. Max. Axial	Case	Aluminum
	10 lb. Max. Radial	Shaft	Stainless Steel

TEMPERATURE SPECIFICATIONS

REFERENCE	+72°F to +75°F (+22°C to +24°C)	OPERATING	+32°F to +158°F (0°C to +70°C)
TEMPERATURE COEFFICIENT OF SPAN	< ±0.02% output/°F Max.	OPTIONAL	-67°F to +257°F (-55°C to +125°C) available for units up to and including 120° of rotation
		STORAGE	-67°F to +257°F (-55°C to +125°C)

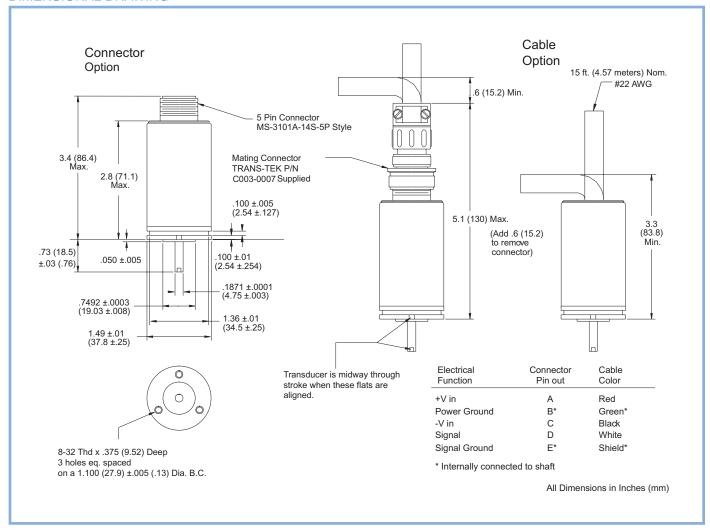
ELECTRICAL SPECIFICATIONS

INPUT		ОИТРИТ	
VOLTAGE REVERSE POLARITY PROTECTED	±14.5 to ±26 VDC	VOLTAGE	0-5, 0-10, ±5, ±10 VDC; 4-20 mA
CURRENT	40 mA Max.	LOADING	5 KOhm Min. short circuit protected
		RIPPLE	< 0.05% FS RMS; @500 KHz
		IMPEDANCE	< 1 Ohm

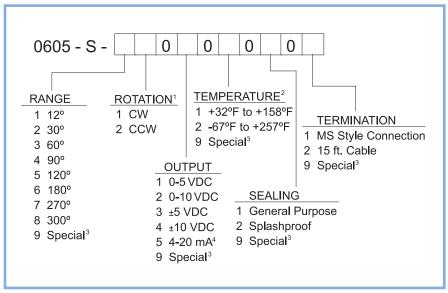
Tel: 800-828-3964 **Fax:** 860-872-4211 860-872-8351 **Web:** www.transtekinc.com

SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.com

DIMENSIONAL DRAWING



ORDERING INFORMATION



Notes:

- Direction of rotation which produces a more positive output voltage, as viewed from the
- The extended temperature range option is not available on units with over 120 degrees of rotation.
- Consult the factory for additional options.
- 4-20 mA option is not available on units with over 120 degrees of rotation. Temperature range is +32°F to +158°F only.

