

Model 1102

Low Capacity Torque Sensor



DESCRIPTION

A line of low capacity rotary slip ring torque sensors primarily designed for fractional horsepower motor test applications. Instrumental in monitoring start up, running, and stall torque levels during development and qualification of these motors. Capacity range from 50 in-oz to 1000 in-oz for small shaft mounting configurations.

FEATURES

- 50 in-oz to 1000 in-oz capacity range
- 0.1 % non-linearity and hysteresis
- Integral foot mount (standard)
- Lower cost for general “in-line” applications
- Can be used with almost all existing dc and ac signal conditioning equipment

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PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Torque range	50, 100, 200, 500, 1000 oz-in
Non-linearity	±0.1 % of rated output
Hysteresis	±0.1 % of rated output
Repeatability	±0.05 % of rated output
Output @ rated capacity	±2 mV/V (nominal)

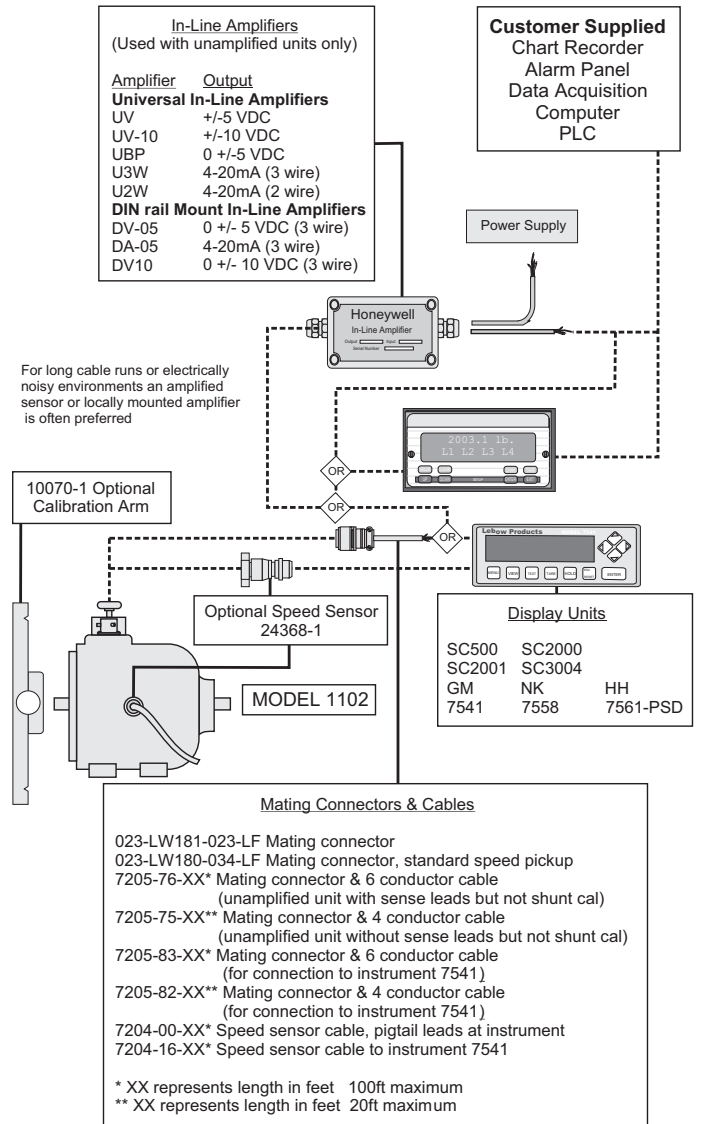
ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-29 °C to 93 °C [-20 °F to 200 °F]
Temperature, compensated	21 °C to 77 °C [70 °F to 170 °F]
Temperature effect, zero	±0.002 % of rated output/°F
Temperature effect, output	±0.002 % of reading/°F

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Excitation (maximum)	20 Vdc or Vac RMS
Insulation resistance	> 5000 mOhm @ 50 Vdc
Bridge resistance	350 ohm (nominal)
Number of bridges	1
Zero balance	±1.0 % of rated output
Electrical termination	PT02E-10-6P

TYPICAL SYSTEM DIAGRAM



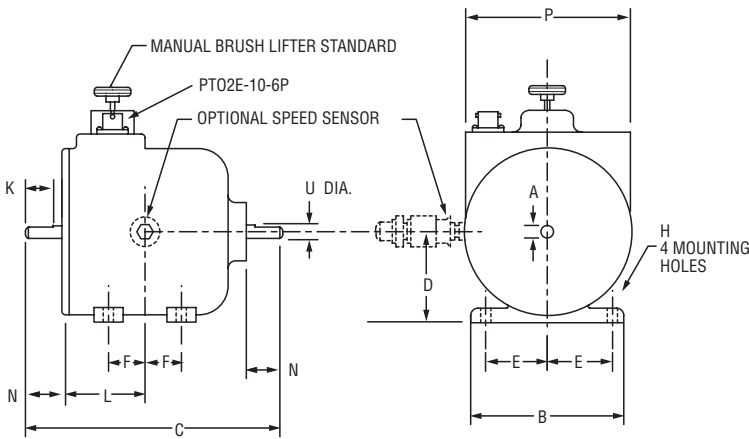
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MECHANICAL SPECIFICATIONS

oz-in	N-m	Max speed RPM	Overload capacity (% of nominal capacity)	Torsional stiffness lb-in/rad	Rotating inertia lb-in sec ²	Weight (lb)
50	0.35	20000	150	665	1.75×10^{-3}	2
100	0.70	20000	150	1070	1.75×10^{-3}	2
200	1.50	20000	150	1790	1.76×10^{-3}	2
500	3.50	20000	150	3480	1.77×10^{-3}	2
1000	7.00	20000	150	4850	1.78×10^{-3}	2

MOUNTING DIMENSIONS

C cm [in]	L cm [in]	N cm [in]	P cm [in]	U cm [in]	K cm [in]	A cm [in]	B cm [in]	D cm [in]	E cm [in]	F cm [in]	H cm [in]
16,50 [6.50]	5,70 [2.25]	2,50 [1.00]	8,90 [3.50]	0,95 [0.37]	1,90 flat [0.75 flat]	0,86 [0.34]	10,50 [4.13]	4,44 [1.75]	4,44 [1.75]	2,50 [1.00]	0,50 [0.20]



For reference only

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

WARNING

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Find out more

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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