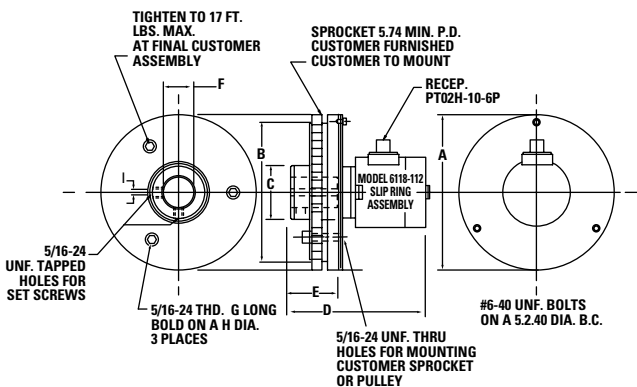


MODELS 1388-102

Sprocket/Pulley torque sensor



Non-contact with encoder models available.
Consult factory.

1388-102	IN.	CM.
A	5.78	14.67
B	5.185 5.186	13.170 13.172
C	2	5.08
D	5.13	13.02
E	1.75	4.45
F	1.125 1.127	2.895 2.863
G	1.50	2.54
H	3.75	9.53
I	0.25	0.64

FEATURES :

- High torsional stiffness
- Insensitivity to belt/chain tension loads on torque readings*
- Elimination of torque error due to bearing losses in jack-shaft assembly
- Measurements of torque "at the source"

Originally designed for a precision feedback control loop on textile machinery, the Lebow Model 1388 Sprocket/Pulley Torque Sensor is a low-cost, accurate method to measure processing torques. Coupled to any belt or chain driven stub shaft and monitored by a closed electrical circuit, machinery speeds and material feed rates can be precisely controlled. Consequently, this automation can increase productivity and decrease power consumption.

- Rotary transformer with encoder option available

PERFORMANCE SPECS : 1388-102

SPECIFICATIONS

Actual performance average:

Nonlinearity:	0.016%
Hysteresis:	0.023%

Nonlinearity: of rated output	±0.1%
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Hysteresis: of rated output	±0.1%
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Capacity:	500 & 1000**
in.-lbs.	

Output at rated capacity:	2.0
millivolts per volt, nominal	

Repeatability: of rated output	±0.15%
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Overload: of rated output	150%
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Zero balance: of rated output	≤1.0%
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Bridge resistance: ohms nominal	360
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Temperature range, compensated: °F	+70 to +170
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Temperature range, compensated: °C	+21 to +77
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Temperature range, usable: °F	-65 to +200
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Temperature range, usable: °C	-54 to +93
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Temperature effect on output:	±0.004%
of reading per °F	

Temperature effect on output:	±0.0075%
of reading per °C	

Temperature effect on zero:	±0.004%
of rated output per °F	

Temperature effect on zero:	±0.0075%
of rated output per °C	

Excitation voltage, maximum:	20
volts DC or AC rms	

Insulation resistance, bridge/case:	>5,000
megohms at 50 VDC	

Speeding rating:	5000
maximum RPM	

*Not to exceed maximum overhung moment.
Consult factory for values.

**Other capacities and designs available, consult factory.

