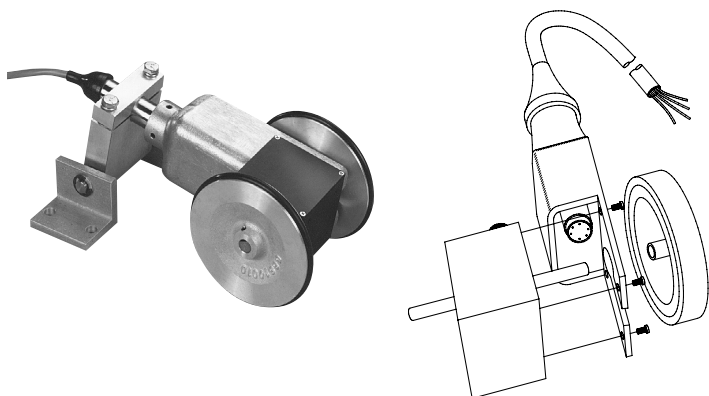


LENGTH SENSOR CONVERSION BRACKET (P/N LSCB1000)

ADAPTS ZBG and ZBH ROTARY PULSE GENERATOR TO LENGTH MEASUREMENT



The tubular arm length of this bracket, related to the wheel axis center-line of the ZBG or ZBH is 6.8" similar to the length sensors. The 10' long, 4-wire, shielded cable (included with conversion bracket) has the same color coding as described for the ZBG and ZBH cable P/N CCARPG01. Screws for mounting the conversion bracket are included.

ORDERING INFORMATION

MODEL NO.	DESCRIPTION	PART NUMBER
LSCB	Length Sensor Conversion Bracket for ZBG and ZBH	LSCB1000
	Length Sensor Conversion Bracket for ZBG and ZBH (Special Length)	LSCB1099
--	Hinge Clamp Assembly for Length Sensors & Conversion Bracket (Above)	LSAHC001

DESCRIPTION

This conversion bracket allows the customer to assemble a custom length sensor by purchasing the following items separately.

1. Length Sensor Conversion Bracket (P/N LSCB1000)
2. ZBG or ZBH with appropriate PPR and Single Channel or Quadrature Output.
3. One or two measuring wheels. Install OF & OK measuring wheels with set screw hub facing ZBG shaft (as shown). Apply thread locking material to wheel set screw threads during installation to ZBG or ZBH shaft.
4. Hinge Clamp Assembly (P/N LSAHC001)

Note: To complete installation, insure guards, shields or other devices are in place to protect personnel from rotating equipment.

LENGTH SENSOR MEASUREMENT ACCURACY

Factors which affect measurement accuracy include Measuring Wheel accuracy and wear, and material conditions. Ideally, materials which are hard, thin and strong provide good readings, conversely, soft, thick and elastic materials can present problems in obtaining true readings. The great majority of these situations, where this effect is consistent, can be compensated for by applying a multiplier to the quadrature output pulse train so as to obtain a corrected measurement. Counter or Rate Indicators with "input scaling" can compensate for Measuring Wheel wear and material elastic and compliance errors. In addition, English/Metric conversions may also be accomplished (See RLC catalog for more information).

LENGTH SENSOR ACCESSORIES

SEPARATE LENGTH MEASURING WHEELS - DIMENSIONS In Inches (mm)

WHEEL CODE	OR	DESCRIPTION	WHEEL CODE	OF	DESCRIPTION	WHEEL CODE	OK	DESCRIPTION
	OR	<p>Round Section Replaceable Tire .210" Section Dia. Black Neoprene</p> <p>8-32 UNF Set Screw</p> <p>.376" (9.6) Bore $\pm .001$ $-.000$</p> <p>Cast Alum.</p> <p>3/8" (9.5)</p> <p>FOR USE ON: Metal, paper, foil, film and hard plastics. Line contact on material being measured, convenient when available measuring track is narrow or for measuring on end of roller beside passing material.</p> <p>Max. Speed: 600 RPM</p>		OF	<p>Tan, Smooth Polyurethane Tread</p> <p>10-32 UNF Set Screw</p> <p>.376" (9.6) Bore $\pm .001$ $-.000$</p> <p>Cast Alum.</p> <p>1" (25.4)</p> <p>FOR USE ON: Soft, smooth materials such as soft paper, matting, cardboard, fine weave textiles. Broad wheel tread minimizes contact pressure and tan polyurethane tread minimizes marking.</p> <p>Max. Speed: 600 RPM</p> <p>Balanced version of 1ft. circumference available. Balanced to ANSI S2.19-1989 Quality Grade 6.3 @ 3000 RPM.</p>		OK	<p>Diamond Knurled Aluminum Tread</p> <p>10-32 UNF Set Screw</p> <p>.376" (9.6) Bore $\pm .001$ $-.000$</p> <p>Cast Alum.</p> <p>1" (25.4)</p> <p>FOR USE ON: Rubber, coarse weave fabrics, rough wood surfaces, foam, insulation.</p> <p>Max. Speed: 600 RPM</p> <p>Balanced version of 1ft. circumference available. Balanced to ANSI S2.19-1989 Quality Grade 6.3 @ 3000 RPM.</p>

SELECTING APPROPRIATE WHEEL SIZE & PPR (Pulses Per Rev.) OF ROTARY PULSE GENERATOR

When the desired output of a length sensor and wheel combination is either in feet or inch units, selection of the proper combination is relatively straight forward. For example, with a 1-foot wheel circumference, a 1 PPR Rotary Pulse Generator will deliver 1 pulse/ft, 12 PPR would deliver 12 pulses/ft (1 pulse/inch); 100 PPR would yield 100 pulses/ft; and 120 PPR would permit measuring to 1/10th of an inch (1/120th of a foot).