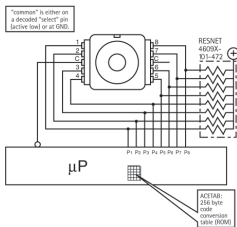


Encoders – Absolute

Absolute Contacting Encoder (ACE)

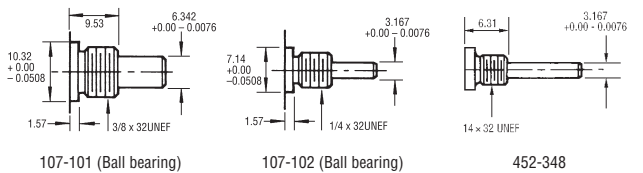
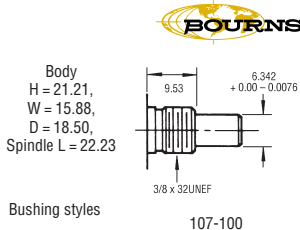


- 8 bit parallel gray code output at each of 128 rotary positions
- Absolute digital output retains its last position in event of power failure
- Compact size, sturdy construction
- Can be interfaced directly with microprocessor
- Panel or PCB mounting
- Low cost

Output	8 bit gray code	Insulation resistance	>1000M ohm
Positions per revolution	128	Rotational life	50,000 shaft revolutions
Contact rating	10mA 10V or 0.1W	Mechanical angle	Continuous
Dielectric strength	1000V ac (min.)	Operating temperature	-25° to +125°C
Max. operating speed	120rpm		
Dimensions	L = 8.8 (body, above PCB), 19.0 (spindle + bush), Body H = 27.9, W = 22.2, M9 (bush), 6.32 (spindle)		
PCB	10 pin DIL, pin spacing = 2.54, row spacing = 25.4		

Mfrs List No.	Order Code	1+	25+	50+	100+
EAWOJB24AE0128	700-5258				

EN Series Rotary Optical Encoder



- Suitable for digital systems where both magnitude and direction of adjustment must be provided
- 2 bit gray code output produced, channel A leads channel B by 90° (clockwise)
- Ideal as a digital panel control or as position sensing devices in applications where long life, high resolution and precise linearity are critical.

Supply voltage	5.0V dc ±0.25V dc	Operating temperature	-40°C to +85°C
Supply current	26mA max	Connections	1 Ground
Mechanical rotation	Continuous		2 NC
Resolution			3 Output A
(107-100, 107-102, 452-348)	128 pulses per revolution		4 +Vcc
(107-101)	256 pulses per revolution		5 Output B

Mfrs. List No.	ENA1J-B28-L00128 = 107-100, ENS1J-B28-L00256 = 107-101
	ENT1J-D28-L00128 = 107-102, ENC1J-D28-L00128 = 452-348.

Order Code	1+	25+	50+	100+
.107-100				
.107-101				
.107-102				
.452-348				

Encoders – Accessories

Measuring Wheel – 0.5m Circumference
10mm Diameter Shaft



- Aluminium measuring wheel has 10mm bore diameter, suitable for use with Hengstler RI58 (10mm dia. shaft) encoders or similar
- Suitable for measuring length of paper, cardboard, non-greasy metals, soft and hard plastics, undressed or surface treated wood
- Tread is 22mm wide white low-wear rubber with good grip

W = 25, Circumference = 500

SEN347

Mfrs. List No.	Order Code	1+	5+	10+
0.601.151	723-4478			

Flexible Couplings



Plastic L = 20.5, Dia. = 15 Helical L = 28, Dia. = 19.2 Diaphragm L = 22, Dia. = 30

Flexible couplings suitable for Hengstler and similar encoders to protect them against excessive mechanical stresses.

Type	Plastic	Helical	Diaphragm
Absolute max. speed	10,000 RPM	6,000 RPM	12,000 RPM
Torque max.	20Ncm	80Ncm	40Ncm
Max. angular misalignment	± 2.5 degrees	± 4 degrees	± 2.5 degrees
Max. shaft misalignment radial/axial	± 0.3mm/± 0.2mm	± 0.25mm/± 0.4mm	± 0.4mm/± 0.4mm
Material	Polyamide 6.6 glass-fibre reinforced	AlCuMgPb, chromed	Polyamide 6.6 glass-fibre reinforced (flange-zinc diecasting)
Compatible Hengstler encoders	RI31-0 Series (5mm shaft)	RI58-0 Series (6mm shaft)	RI58-0 Series (6mm shaft) RA58-P (10mm shaft)

SEN209X

Type	Hub Diameters	Mfrs. List No.	Order Code	1+	5+	10+
Plastic	5/5mm	3.520.034	730-981			
Plastic	5/6mm	3.520.033	730-993			
Helical	5/6mm	3.520.035	731-006			
Helical	6/6mm	0.070.653	731-018			
Diaphragm	5/6mm	3.520.050	731-020			
Diaphragm	6/6mm	1.076.013	731-031			
Diaphragm	6/10mm	1.076.015	731-043			
Diaphragm	10/10mm	1.076.014	731-055			

Displacement Sensors

Rotary



H = 32, W = 43, D = 15.5 (incl. mtg. boss 1.5), Leads L = 250 Fixing centres = 33.0, Slot W = 4.5

- Rugged construction suitable for demanding environments
- High rotational life – 5 million cycles
- Standard 1/4" through-hole 'D' shaft actuation
- Suitable for either clockwise or anti-clockwise spring biasing
- Conductive plastic track and contact design gives constant linearity and high accuracy

High-performance compact potentiometric rotary position sensor for use in electrical industrial vehicles, engine management systems, industrial and medical applications.

Total resistance @ 25°C	5kΩ ± 20%	Mechanical rotation	130° ± 5°
Linearity	± 2%	Spring torque	120mNm (max.)
Electrical travel	106°	Max. voltage	13.5 Vdc
Power rating	1W @ 40°C derated to 0W @ 135°C		

SEN279

Mfrs. List No.	Order Code	1+	10+	25+
971-0002	700-6457			

Potentiometric Angular Position Sensors



- Potentiometric angular position sensor with linear characteristic curve
- Sturdy construction for extreme loading
- Very compact

Angular position sensors with linear characteristic curves. These are widely used in electronic fuel-injection engines to generate a voltage ratio which is proportional to the throttle valves' angle of rotation.