

PE18

Extremely compact, J1939 capable
 Patented true non-contact position sensing
 0.5" (12mm) gap between sensor and application
 0.10" (2.5mm) center alignment
 30° planar tilt



Electrical

Outputs	B - 0064	8 bit Quadrature Incremental @ 64 Pulses Per Revolution
	B -1939	8 bit J1939 256 Count Absolute Single-Turn
	V1	8 bit voltage output w/ custom voltage and angle range
	I1	8 bit voltage output w/ custom voltage and angle range
Input Power		6 to 30 VDC at approx 60 mA max, not including output loads
Electrical Protection		Over-voltage, reserve-voltage, output short-circuit protected
LED Indicators		Power and communication
Connections		M8, Flying Lead Cable or Shielded Flying Lead
Resolution		5.625° (8 bit 64 positions across 360°)
Accuracy		0.6°
Hysteresis		0.18°

Housing

Housing Diameter	0.71" (18mm)
Housing Material	Aluminum (Red anodize standard) or Stainless steel
Housing Height	2.00" (50.8mm)
Mounting	18mm Threaded
Weight	0.81oz (22.8 grams) without mounting nuts
Magnet / sensor gap*	Standard 0.5" (12mm)
Rated planer tilt / axial gap*	Planar 30° (Max 45°) / Axial 0.1" (2.5mm)
Speed	3000 RPM (up to 10000 RPM max based on installation)

Environmental

Operating Temp	-30° to +80° C
Storage Temp	-40° to +80° C
Humidity	100%
Shock	400g/6ms (MIL STD 202)
Vibration	5 to 3000 Hz, 20g (MIL STD 202)
Protection Class	IP67 with Standard M8 (IP69k Optional)

Accessories

Application Magnet	MAGH-RING included with purchase
Mating Cable	PKG-6M2 optional for M8 connector

Product Order Guide

HOUSING	OUTPUT	CONNECTION	MODIFIERS
PE18 18MM Cylinder Housing	B-0064-SEPP 64 pulse single ended quadrature output	M8 6 pin M8 male	M1 M8 6 pin female 72" mating cable
PEBX 2" x 1" x 1" box Square Mount Housing	V1 0-5VDC across 0-360 absolute position analog output	C72 72" flying lead cable	51 Housing material Red aluminum
	I1 4-20mA across 0-360 absolute position analog output		53 Housing material Black aluminum
	B-1939 256 count absolute single-turn J1939 output		54 Housing material Stainless Steel
			101 Sense element orientation Side sense orientation