Hazardous Duty Encoder

Key Features

- UL Certified for Hazardous Applications
- Rugged Design Resists up to 400g Shock and 20g Vibration
- Compact Design with Field Serviceable **Connector for Solder-Less Connections**
- Dual Isolated Output Option for Redundancy





STANDARD OPERATING CHARACTERISTICS

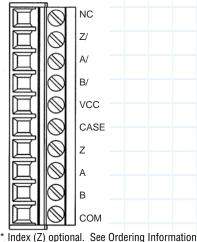
Code: Incremental

- Resolution: to 5000 PPR (pulses/revolution) See **Ordering Information** Format: Two channel quadrature (AB) with
- optional Index (Z), and complementary outputs Phase Sense: A leads B for CW shaft rotation
- viewing the shaft clamp end of the encoder Quadrature Phasing:
- For resolutions 200 to 300PPR and 1200PPR and above: $90^{\circ} \pm 30^{\circ}$ electrical; all other resolutions: $90^{\circ} \pm 15^{\circ}$

Symmetry:

- For resolutions 200-300PPR and above1024PPR:180° ±25° electrical; all other resolutions: 180° ±18°
- Waveforms: Squarewave with rise and fall times less than 1 microsecond into a load capacitance of 1000 pf

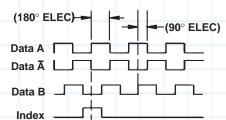
ELECTRICAL CONNECTIONS



ELECTRICAL

Input Power: 5-26VDC, 5-15VDC. 50 mA max., not including output loads. Outputs: ET7272, ET7273, 4469 Frequency Response: 125 kHz (data & index) Termination: Pluggable screw terminals, inside terminal box with 1/2" conduit connector

> DATA AND INDEX Not all complements shown A shown for reference



A leads B, CW (from clamp end)

MECHANICAL

Shaft Material: Stainless Steel Bore Diameter: 6mm to 28mm, 1.4" to 1.25", electrically isolated Mating Shaft Length: 1.25", Minimum, 1.60". Recommended Shaft Speed: 6000 RPM, Maximum (Enclosure Rating is IP64 at speed over 5000 RPM) Starting torque: 11.0 in-oz. maximum (at 25°C) Running torque: 5.0 in-oz. maximum (at ambient) Bearings: ABEC 3 Housing and cover: Hard Anodized and Powder Coated Aluminum Disc material: Plastic Weight: 3.2 lb (51.2 Oz) Typical

ENVIRONMENTAL

Operating Temperature: -40 ° to +85 °C with 7272 Line Driver; -40 ° to +70 °C with 4469 line driver; see "Ordering Information "). At shaft speed above 3000 RPM, derate 10 °C per 1000 RPM Storage temperature: -40 to +100°C Shock: 400g, 6mSec Vibration: 5 to 3000 Hz, 20g Humidity: 100% Enclosure Rating: IP67 (IP64 at shaft speeds above 5000RPM) Hazardous Location Certification: Class I, Division 2, Groups A, B, C & D; Class II, Division 2, Groups F & G

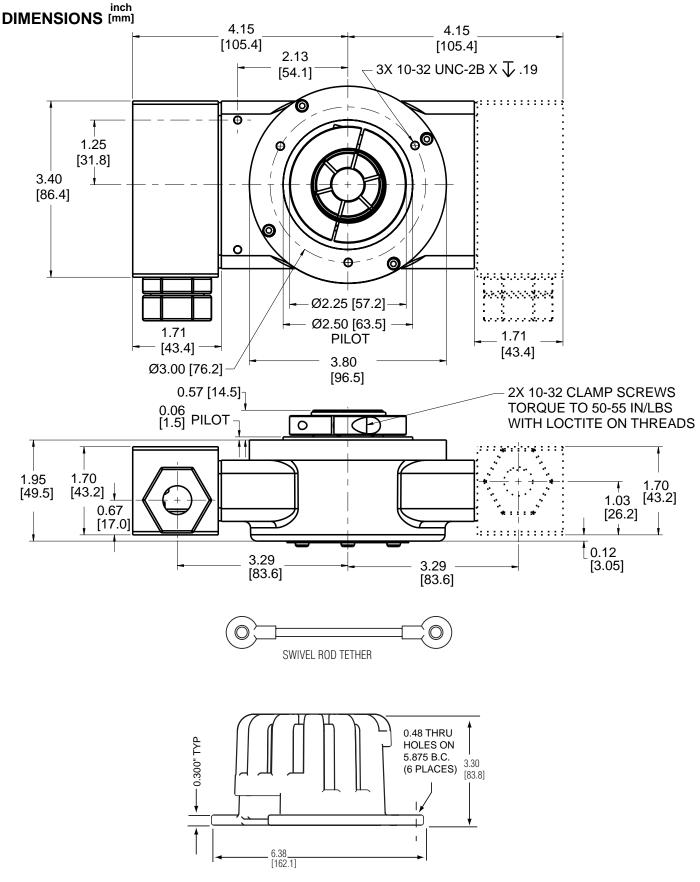
Ordering Information

To order, complete the model number with code numbers from the table below:

Code 1: Model Code 2: PPR Code 3: Bore Size	Code 4: Fixing	Code 5: Output Format	Code 6: Options
			D2
ID35 0001 0512 0 6mm Stamped M Iazardous Series, Iollowshaft ncoder 0001 0512 0 6mm 1 1/4" 0 None 0010 0900 2 5/16" 0 None 1 4.5" C-Fac 0015 1024 5 10mm 2 8.5" C-Fac 0032 1200 6 12mm 3 Slotted tet 0050 1500 7 1/2" 4 Same as 1 0100 2048 9 15mm w/56C-fa 0120 2400 C 19mm 5 Same as 2 0200 2500 D 3/4" 6 Same as 2	A AC motor fan cover tether with T-bolt B 4.5" C-face tether with 3/8" bolt C 8.5" C-face tether with 1/2" bolt D Same as "A" w/ cover kit E Same as "B" w/	 0 Single Ended ABZ, 5-26VDC push-pull 1 Single Ended ABZ, 5-26VDC O/C 2 Single Ended ABZ, 5-26VDC O/C 2 Single Ended ABZ, 5-26VDC O/C w2.2kOhm 4 Differential AB only, 5-26, 5-26 out (7272) 5 Differential AB only, 5-26 in, 5V out (7272) A Differential AB, 5-26V in, 5V out (4469) C Differential ABZ, 5-26 in, 5V out (7272) 7 Differential ABZ, 5-26 in, 5V out (7272) 8 Differential ABZ, 5-26 in, 5V out (7272) 8 Differential ABZ, 5-26 in, 5V out (4469) 9 Differential ABZ, 5-26 in, 5V out (4469) 9 Differential ABZ, 5-15 in, 5-15 out (4469) 9 Differential ABZ, 5-15 in, 5-15 out (4469) 10 Dual isolated outputs, same as "6" E Dual isolated outputs, same as "8" G Dual isolated outputs, same as "9" 	D2

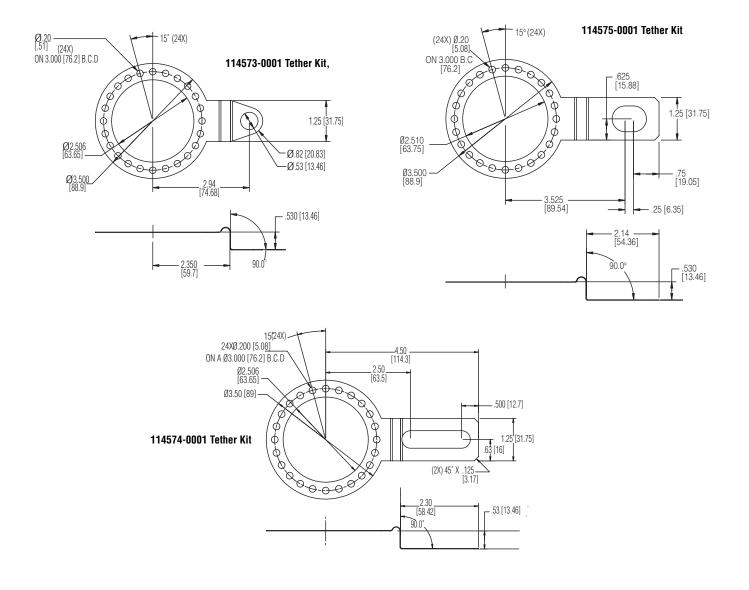
Accessory Kits:

114573-0001	Tether Kit, 4.5" C-face single point with 3/8" bolt
114574-0001	Tether Kit for Standard AC motor fan covers with T-bolt
114575-0001	Tether Kit, 8.5" C-face single point with 1/2" bolt
756-042-01	Rod Tether, AC motor fan cover with T-bolts
756-043-01	Rod Tether Kit, 4.5" C Face with 3/8" bolt
756-044-01	Rod Tether Kit, 8.5" C Face with 1/2" bolt
114622-0001	Cover Kit, 56C-face (single or dual output)
114928-0001	Cover Kit, 180C-face (single or dual output)
114623-0001	Cover Kit, Fan cover (single or dual output)



OPTIONAL SAFETY COVER(S)

inch DIMENSIONS [mm]



Worldwide Brands: NorthStar[™] • Acuro[™] • Dynapar[™] • Hengstler[™] • Harowe[™]

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