

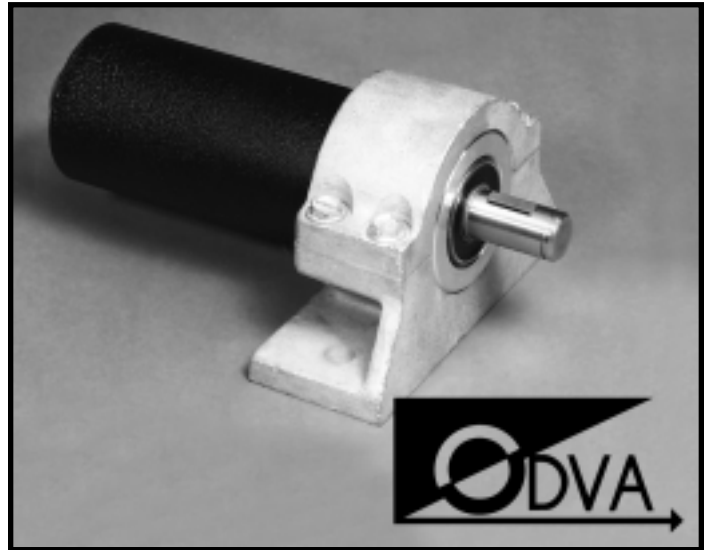
Rugged Resolver Encoder with Embedded DeviceNet™ Node

Series 1986DN Resolver Encoders combine the reliability and resolution of resolver continuous rotary position sensing with the added flexibility of DeviceNet communications, all in a single device. The resolver technology is the same as used in other Gemco encoders, proven in such rugged applications as on stamping press automation. The rugged housing construction is ideal for harsh industrial environments. All embedded electronics are SMT constructed for the ultimate in reliability.

The 1986DN plugs in as a node on any control system with a DeviceNet Scanner Card. Additional encoders are added by simply plugging onto the network. Continuous rotary position data is provided with 12 bit resolution. In addition, eight (8) built-in user programmable set-points allow direct control of critical functions. All programming is done over the DeviceNet network.

The Series 1986DN provides flexibility and cost savings when compared to other methods of continuous position sensing. Each encoder is easy to mount and wire, using mini-change plug connectors, saving over cumbersome traditional resolver cables. Since every DeviceNet network is bus powered, there is no separate power supply to worry about. There are no port concentrators to buy, since all of the sensing and network electronics are embedded within the encoder housing. The 1986DN, with continuous rotary position and eight (8) discrete set-points built-in, plus a DeviceNet scanner card is competitive with a plain resolver and PLC resolver input card. And, additional 1986DN units can be added on the same DeviceNet network without adding additional scanner cards, making this approach very attractive when more than one encoder is needed on the same system.

Using the 1986DN Resolver Encoder, it is now possible to eliminate programmable limit switches or other added electronic modules. This means savings on equipment and installation with improved reliability, which translates directly to improved productivity and lower costs.



Reference Specifications

12 Bit Resolution (4096 Counts) up to 1800 RPM

Response in Real Time on the DeviceNet Network

125K, 250K or 500K Baud Rates

Supports Bit Strobe or Pulling Modes

All Electronics Embedded in Encoder Housing

DeviceNet Node Embedded. Programmable Scale Factor

Continuous Position Data, RPM Data,
plus 8 Discrete User Programmable Setpoints

Setpoints Programmable over the DeviceNet Network

-20°C to +70°C (-4°F to +158°F)

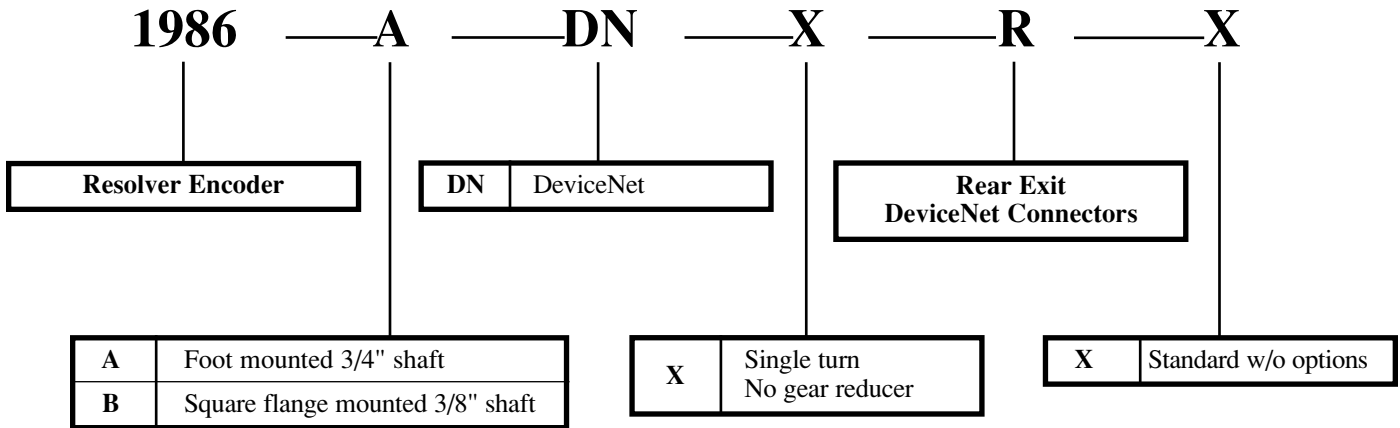
All Metal Construction, NEMA 4 Enclosed

Mini-Change DeviceNet Connector

Flange or Foot Mounting

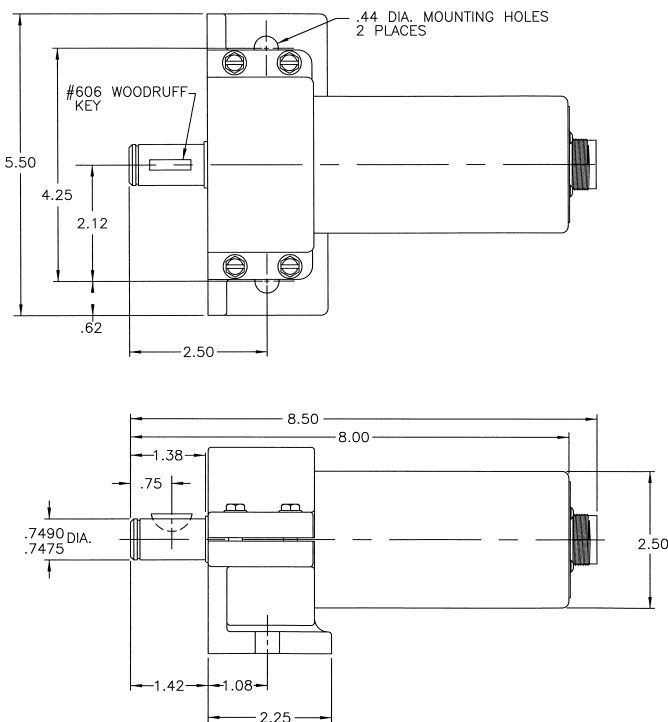
Specifications may change without notice. Patent Pending

Series 1986 DN DeviceNet Resolver Part Numbers

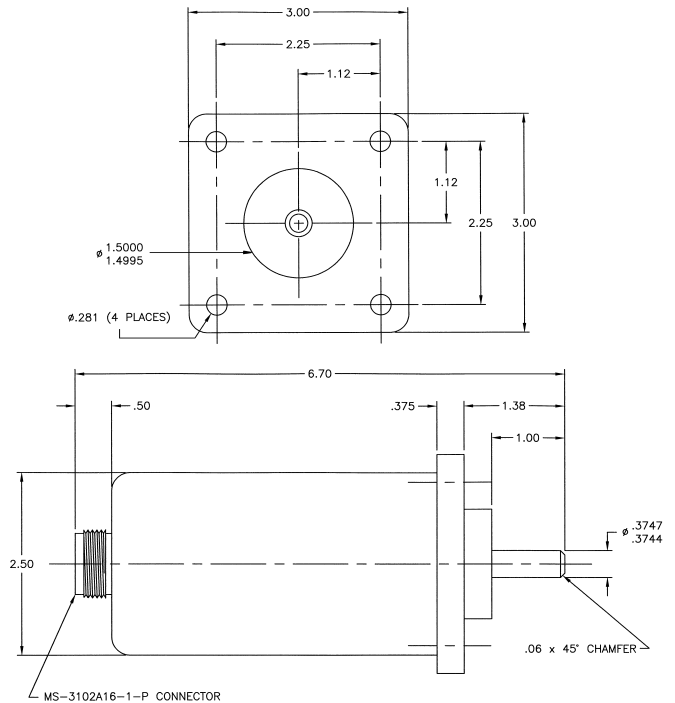


Engineering Data

Foot Mount



Flange Mount



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