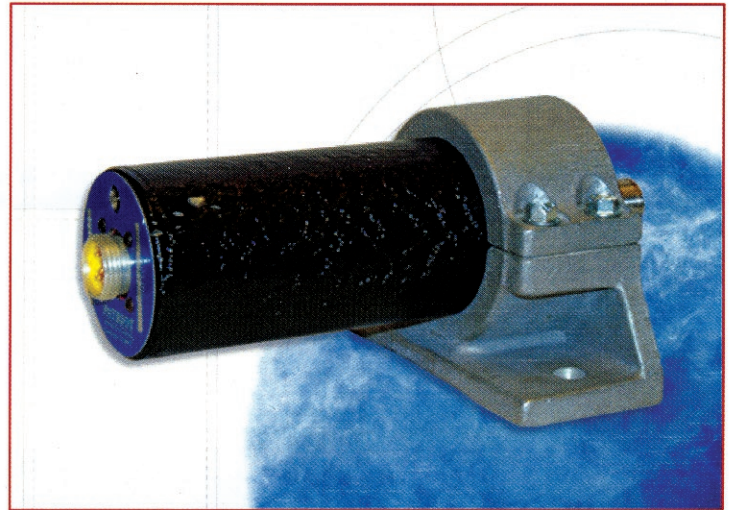## Rugged Resolver with Embedded DeviceNet Node

Series 1986DN Resolver combines the reliability and resolution of a resolvers continuous rotary position sensing with the added flexibility of DeviceNet communications, all in a single device. The resolver technology is proven in such rugged application as a 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 resolvers 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 setpoints 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 resolver 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 resolver 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. 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 resolver is needed on the same system.

Using the 1986DN Resolver, 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.
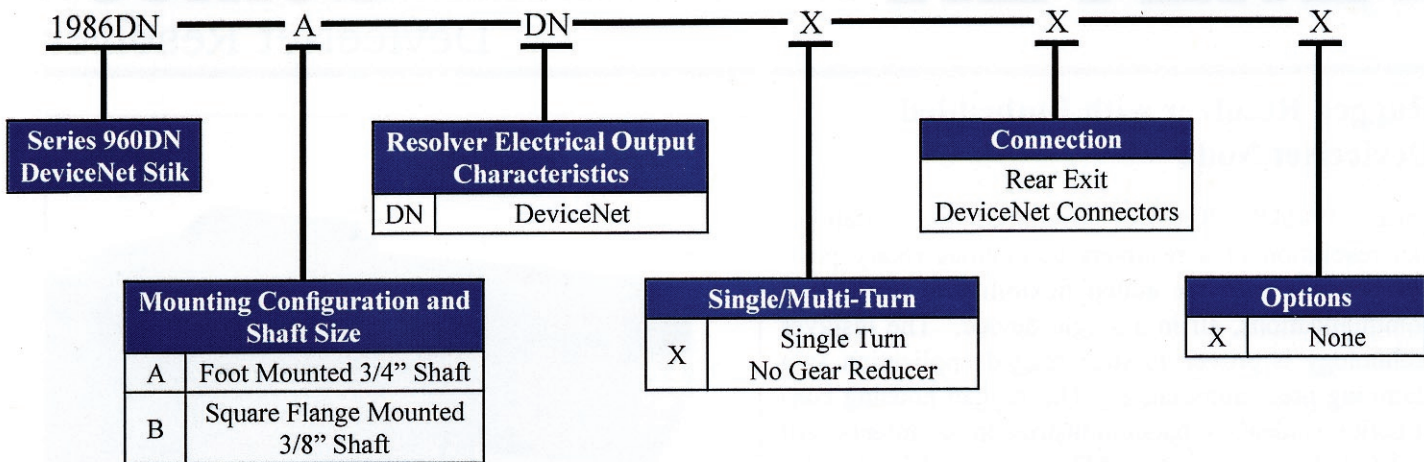

DeviceNet™
CONFORMANCE TESTED

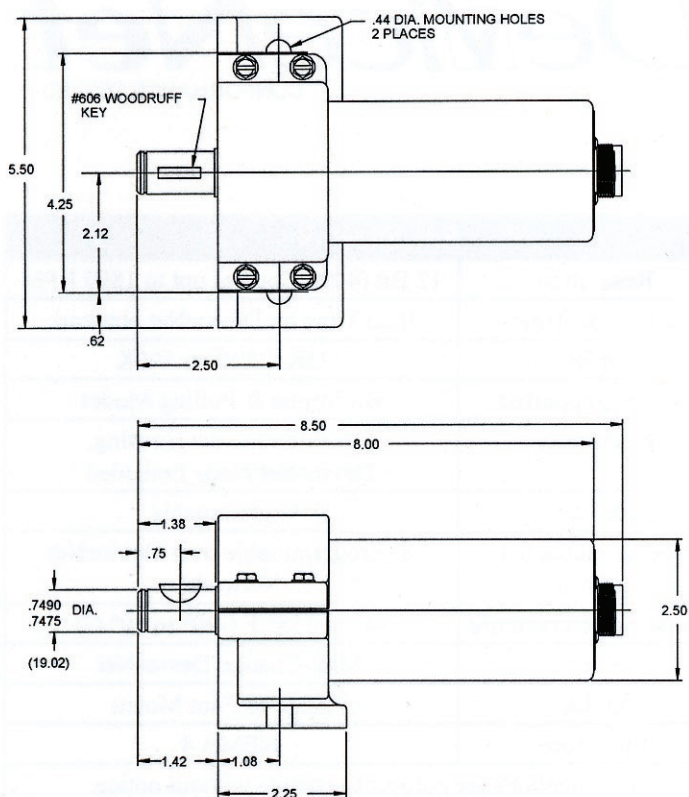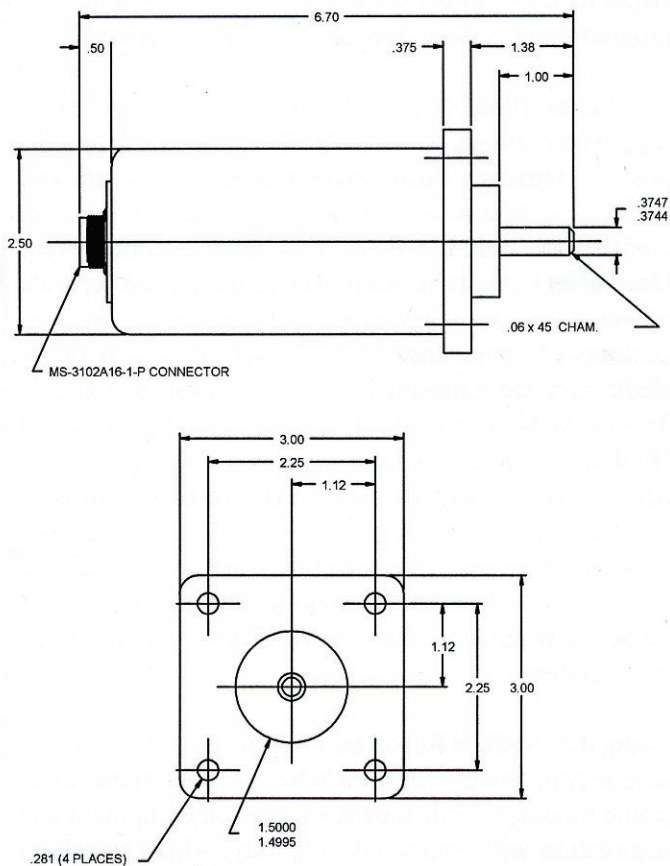| Specifications	
Resolution	12 Bit (4096 Counts) upt to 1800 RPM
Response Time	Real Time on DeviceNet Network
Baud Rates	125K, 250K or 500K
Modes Supported	Bit Strobe & Pulling Modes
Electronics	Embedded in the Housing, DeviceNet Node Embeded
Scale Factor	Programmable
Programmable Set-points	8 (Programmable over DeviceNet Network)
Operating Temperature	-4° to 158° F (-20° to 70° C)
Connector	Mini-Change DeviceNet
Styles	Flange or Foot Mount
Enclosure	NEMA 4
Specifications are subject to change without notice.	

Series 1986DN Part Numbers

1986DN —— A —— DN —— X —— X —— X

Series 960DN DeviceNet Stik

Mounting Configuration and Shaft Size

A	Foot Mounted 3/4" Shaft
B	Square Flange Mounted 3/8" Shaft

Resolver Electrical Output Characteristics

DN	DeviceNet

Single/Multi-Turn

X	Single Turn No Gear Reducer

Connection

Rear Exit
DeviceNet Connectors

Options

X	None

Dimensions

Foot Mount

.44 DIA. MOUNTING HOLES 2 PLACES
#606 WOODRUFF KEY
5.50
4.25
2.12
.62
2.50

8.50
8.00
1.38
.75
.7490 .7475 DIA.
(19.02)
1.42
1.08
2.25
2.50

Flange Mount

6.70
.50
.375
1.38
1.00
2.50
.3747 .3744
.06 x 45 CHAM.
MS-3102A16-1-P CONNECTOR

3.00
2.25
1.12
1.12
2.25
3.00
1.5000 1.4995
.281 (4 PLACES)