

# FS Series

## Sanitary Pressure Transmitter

**Dylix**<sup>®</sup>  
Corporation

### *Tri-Clamp or Cherry - Burrell Fittings*

#### **Designed for the sanitary markets**

Dylix's FS Series is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the sensing element is its isolation from induced stresses, which maintains negligible zero and span offsets due to the clamping force effects. This product is modular and is configurable to meet our customers exact needs.

#### **Manufactured for reliability in CIP and wash-down areas**

The FS is built using advanced manufacturing techniques, with automated welding procedures, extreme environmental burn-in and thorough residual stress relieving techniques. The FS Series NEMA 4X packaging ensures reliable service in the wash-down environments of the sanitary industry regardless of signal output or pressure format.

#### **"Backed-up" sensing diaphragm**

Every FS Series sensing diaphragm is "backed-up" with a solid piece of steel which greatly improves the resistance to sharp objects and overpressure.

#### **Dylix's Customer Service**

Every FS Series is shipped within 2-3 Weeks ARO with a NIST traceable calibration certificate

For CIP / SIP and Wash-Down Areas



Clamp Sizes  
from 1/2" to 5"

Shown with standard cable exit

#### **Standard Features**

$\leq \pm 0.25\%$  FSO  
Static Accuracy  
NEMA 4X Packaging

#### **Available Options**

0.1% FSO Static Accuracy  
Alternate Wetted Materials  
1/2" - NPT Conduit Fitting

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Pressure Instruments*

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# FS Series Pressure Transmitter



0-3 psi through 0-1,000 psi  
Isolated Sensor for Low Clamping Effect

## Product Specifications

### Electrical

|                         |                                     |
|-------------------------|-------------------------------------|
| Excitation              | 8-38 Vdc*                           |
| Output                  |                                     |
| FS2                     | 0-5 Vdc*                            |
| FS3                     | 4-20 mAdc                           |
| Zero Balance            | $\leq \pm 1\%$ FSO                  |
| FSO Setting             | $\leq \pm 1\%$ FSO                  |
| Resolution              | Infinite ( $\pm .001\%$ FSO usable) |
| Response Time           | < 5 mS                              |
| Insulation Resistance   | 1000 M $\Omega$ @ 50 Vdc            |
| Reverse Polarity        | Protected                           |
| Warm-up                 | < 10 mS                             |
| Power Supply Effect     | $\leq \pm .002\%$ FSO per V input   |
| EMI/RFI                 | Internal Filtering                  |
| Short Circuit Protected | Up to 40 Vdc                        |

### Mechanical

|                      |   |
|----------------------|---|
| Pressure Ranges      | 0-3 through 0-1,000 psi<br>(Customer may specify any range/eng. unit FOC)<br>(Absolute, vacuum, compound available options) |
| Proof Pressure       | 2X Full Scale*  |
| Burst Pressure       | 5X Full Scale* (Max 3000 psi)   |
| Materials            |   |
| Wetted Parts*        | 316L SST*   |
| Non-wetted Parts     | 316 SST plus electrical connector*  |
| Pressure Port        | 2" - Tri-Clamp*   |
| Electrical Connector | NEMA 4X cable exit (24" cable)*   |
| Dimensions           | per outline below   |
| Weight               | nominal 10 oz   |

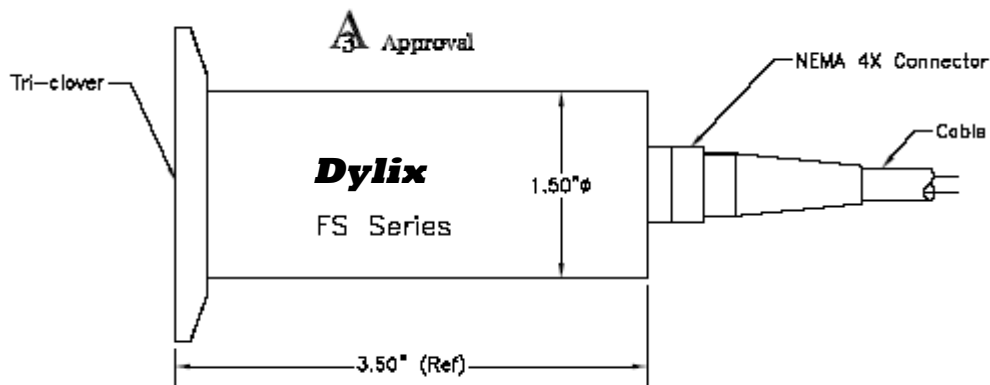
### Environmental

|                        |               |
|------------------------|---------------|
| Compensated Temp Range | 0 to 170 °F   |
| Operating Temp Range   | -40 to 200 °F |
| Storage Temp Range     | -40 to 250 °F |

### \*Options Available

### Performance

|                     |   |
|---------------------|---|
| Static Accuracy     | $\leq \pm 0.25\%$ FSO* (BFSL, RSS)*<br>(combined effects of non-linearity, hysteresis, & repeatability) |
| Repeatability       | $\leq \pm 0.05\%$ FSO   |
| Temperature Effects | $\leq \pm 1.5\%$ FSO over comp range*<br>(combined effects of zero & FSO with reference at 70 °F)       |
| Long Term Stability | $\leq \pm 0.25\%$ FSO per year  |



### Standard Wiring:

| Model | Output              | +Power          | -Power            | + Signal          | - Signal             |
|-------|---------------------|-----------------|-------------------|-------------------|----------------------|
| FS1   | mV/V dc 4 wire      | Red/Pin 1/Pin A | Black/Pin 2/Pin B | Green/Pin 3/Pin C | White/Pin 4/Pin D    |
| FS2   | 0-5 (10) Vdc 3 wire | Red/Pin 1/Pin A | Black/Pin 2/Pin B | Green/Pin 3/Pin C | + Sig ref to - Power |
| FS3   | 4-20 mAdc 2 wire    | Red/Pin 1/Pin A |                   | Black/Pin 2/Pin B |                      |

Dylix Corporation reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.