

# Sanitary Pressure Transmitter FS Series





# Tri-Clamp or Cherry Burrell Fitting

**Design & Application 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 features of the sensing element are:

- Its isolation from induced stresses, maintaining negligible zero and span offsets due to the clamping force effects, and
- 2. Its diaphragm is "backed-up" with a solid piece of steel, greatly improving its resistance to sharp objects and overpressure.

The FS Series NEMA 4X packaging design ensures reliable service in the wash-down environments of the sanitary industry.

This product is modular and is configurable to meet our customers' exact needs.

## Manufacturing & Quality

The FS is built using an advanced modular assembly process that allows high customization and short delivery times. Innovative manufacturing techniques, with automated welding procedures, extreme environmental burn-in and thorough residual stress relieving techniques.

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

Each FS Series is shipped with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

# **Standard Features**

- ≤±0.25% FSO Static Accuracy
- NEMA 4X Packaging
- · ≤±0.25% FSO/YR Stability
- Clamp sizes from ½" to 5"
- 24" Wire Leads (NEMA 4X)
- · Designed for CIP/SIP Wash-Down Areas

# **Optional Features**

- ≤±0.1% FSO Static Accuracy
- · Alternate Wetted Materials
- ½" NPT Conduit Fitting
- · Intrinsically Safe

Contact Dylix Sales for Other Custom Applications... sales@dylixcorp.com • 716.773.2985

# **Specifications: FS Series**

### **Pressure Transmitter**

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

Baseline Configuration Specs Represented.

Modifications Encouraged - See Below
Custom Designs Available

#### **Electrical**

**Excitation** 9-38 Vdc\*

Output

F\$2 0-5 Vdc\* FS3 4-20 mAdc

FS7 4-20 mAdc Intrinsically Safe

Zero Balance ≤±1% FS0 FSO Setting ≤±1% FSO

**Resolution** Infinite (±0.001% FSO usable)

Response Time < 5 mS

Insulation Resistance 1000 M  $\Omega$  at 50 Vdc

Reverse Polarity Protected Warm-up < 10 mS

Power Supply Effect ≤± 0.002% FSO per V input

(FS2, FS3, FS7)

EMI/RFI Internal Filtering (FS2, FS3, FS7)

Short Circuit Protected 40 Vac (FS2, FS3, FS7)

#### Mechanical

**Pressure Ranges** 0-3 through 0-1,000 psi

(Customer may specify any

range/eng. unit)

(Absolute, vacuum & compound

are available options)

Proof Pressure 2X Full Scale\*

Burst Pressure 5X Full Scale\* (Max 3000 psi)

**Materials** 

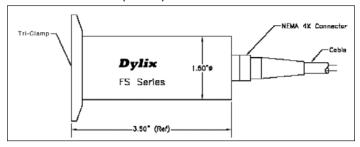
Wetted Parts 316 ss\*
Non-wetted Parts 316 ss

Pressure Port 2" - Tri-C

Pressure Port 2" - Tri-Clamp\*
Electrical Connector NEMA 4X cable exit (24" cable)\*

DimensionsPer DrawingWeightNominal 10 oz.

#### **Product Dimensions (inches)**



#### **Performance**

Static Accuracy ≤± 0.25% FSO\* (BFSL, RSS)\*

(Combined effects of non-linearity,

hysteresis & repeatability)

Repeatability ± 0.05% FSO

**Temperature Effects** ± 1.5% FSO over comp range\*

(Combined effects of Zero & FSO

with reference at 70° F)

Long Term Stability ≤± 0.25% FSO per year

#### **Environmental**

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

#### Certifications

CSA/CUS Intrinsically Safe Class I Div. 1 Groups A,B,C,D T4 CSA/CUS Intrinsically Safe Zone 0,1&2 (A)Ex ia IIC T4 Ga

#### **Standard Wiring**

Model	Output	+ Power	- Power	+ Signal	- Signal
FS2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	Black/Pin 2/Pin B
FS3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
FS7	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	



\*Options Available

74-05

# **Modifications and Warranty**

MODIFICATIONS: Transducer/Transmitter applications vary greatly. As such our designs are flexible. Choices such as pressure ports, electrical termination, material compatibility, and performance are a few of the many options available. Specifications on this datasheet represent standard configuration only. Product and company names that may be listed are trademarks of their respective companies. Any and all specifications subject to change without notice.

WARRANTY: Dylix Corporation warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Dylix Corporation's obligation shall be limited to correcting any defective material, FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Dylix Corporation. This warranty is in lieu of all other warranties expressed or implied.



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