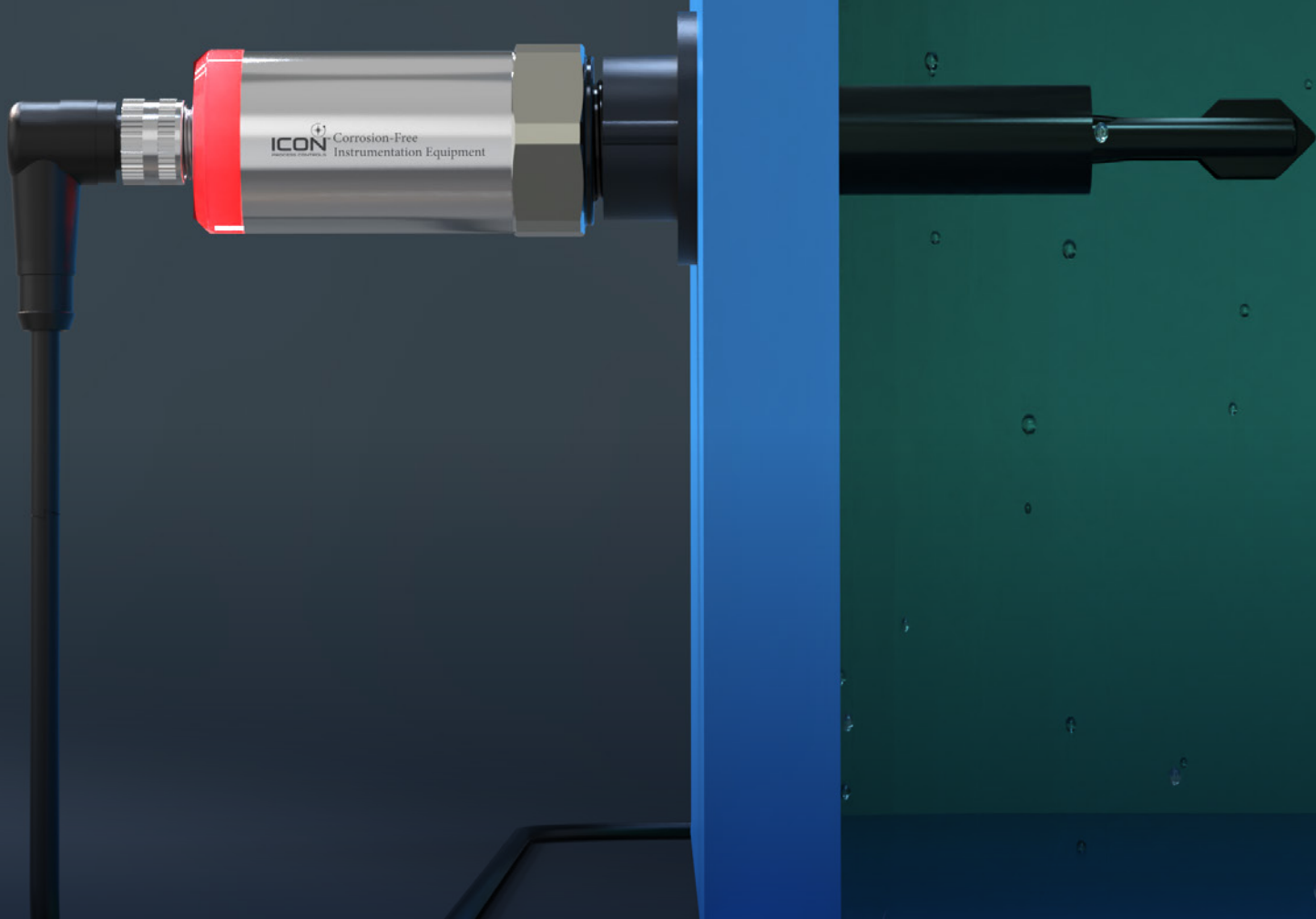


LevelPro® — TFS Series

Tuning Fork – Vibration Level Switch

ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment™

LevelPro®



LevelPro® — TFS Series

Tuning Fork – Vibration Level Switch



Features

- ✓ Excellent Chemical Resistance
- ✓ Corrosion Resistant Teflon® Coated SS
- ✓ Suitable for Dense Foam | Viscous Liquids
- ✓ Excellent Choice for Coating Liquids
- ✓ Explosion-Proof Option
- ✓ NEMA 4X | IP67 Housing

The LevelPro® TFS Series compact level switches combine affordability, reliability, and simple installation.

The TFS Series is a vibrating type level switch used extensively in liquid and slurry applications where precise and reliable point level detection is crucial. Applications include: overflow, high level, low level, corrosive liquids, and pump protection.

The TFS Series is designed for industrial use in all areas of process technology and can be used with liquids and slurries. With a tuning fork insertion length of only 38mm the TFS switch can be mounted in small pipes and applications with confined space. The TFS Series can be used in difficult conditions including turbulence, air bubbles, and foam.

Specifications

Power Supply	19 ~ 60VDC 50/60Hz
Outputs	SPDT NPN/PNP (solid-state)
Output Loads	Relay : 250VAC / 4A & 60VDC / 4A NPN PNP : 400mA
Length Range	2" – 48"
Medium Temperature	-40°F to 176°F (Standard Version) -40°F to 302°F (High-Temperature Version)
Working Pressure	-14.5 – 290 psi For applications > 290 psi (consult factory)
Liquid Density	> 0.7 g/cm ³
Liquid Viscosity	≤ 10,000 mm ² /s
Switching Time	≈2s (in medium) ≈3s (free)
Power Consumption	0.25W with DC supply
Process Connection	½" NPT (up to 8") ¾" NPT (above 8")
Electrical Connector	M12
Wetted Material	PTFE Teflon® Coated SS 316SS
Housing Material	SS Explosion-proof (Optional)

Wiring

M12 – Relay (SPDT)		M12 – NPN PNP	
Wire Color	Description	Wire Color	Description
Brown	+VDC	Brown	+VDC
Blue	-VDC	Blue	-VDC
Black	NO	Black	NPN
White	NC	White	PNP
Grey	COM		

LED Status Indication

LED	Description
Green	Power Indicator
Red	Output Indicator



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