

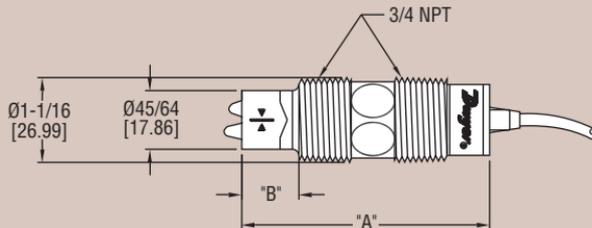
Series  
TDS

# Thermal Dispersion Flow Switch

## Adjustable Switch Point, LED Indication



Dim.	TDS112, TDS212	TDS122, TDS222
A	3.0" (7.6 cm)	4.5" (11.4 cm)
B	0.7" (1.8 cm)	2.1" (5.3 cm)



The Series TDS Thermal Dispersion Flow Switch offers solid state flow detection of non-coating liquids for pump and process protection. SPDT output allows for interfacing with remote PLC or relay control device. The adjustable switch point is factory calibrated at 0.2 fps with LED indication of flow and calibration status. Units feature selectable NO or NC operation and are not damaged by overranging flow velocities.

Model	Wetted Parts	Length
TDS112	PP/PPS	3.0" (7.6 cm)
TDS212	PVDF	3.0" (7.6 cm)
TDS122	PP/PPS	4.5" (11.4 cm)
TDS222	PVDF	4.5" (11.4 cm)

### SPECIFICATIONS

**Service:** Liquids.

**Wetted Materials:** Polypropylene /PPS or polyvinylidene fluoride.

**Range:** 0.04 to 3 fps (1.2X10<sup>-2</sup> to .91 m/s).

**Temperature Limits:** 32 to 140°F (0 to 60°C).

**Pressure Limits:** 150 psi (10 bar) @ 25°C, derated @ 1.667 psi (.113 bar) per °C above 25°C.

**Repeatability:** ±5% of setpoint.

**Switch Type:** SPDT.

**Electrical Rating:** 60 VAC/60 VDC @ 1 A.

**Electrical Connections:** 22 AWG 3-wire, 10 ft (3 m) length.

**Process Connections:** 3/4" male NPT.

**Mounting Orientation:** Any orientation, for pipe sizes 3/4" to 1-1/2" use 3.0" (7.6 cm) length switch; for 2" to 16" pipe sizes use 4.5" (11.4 cm) length switch.

**Setpoint Drift:** 0.5% of setpoint.

**Response Time:** 1-10 seconds.

**Viscosity Range:** 1 to 200 centipoise.

**Supply Voltage:** 12 to 36 VDC.

**Consumption:** 50 mA (nominal).

**Indication:** LED for flow status.

**Weight:** 3 oz (94 g).

**Agency Approvals:** CE.