

FLX Series

Stem-Mounted, Multi-Point Float Switch
Hazardous Location Approved

Datasheet

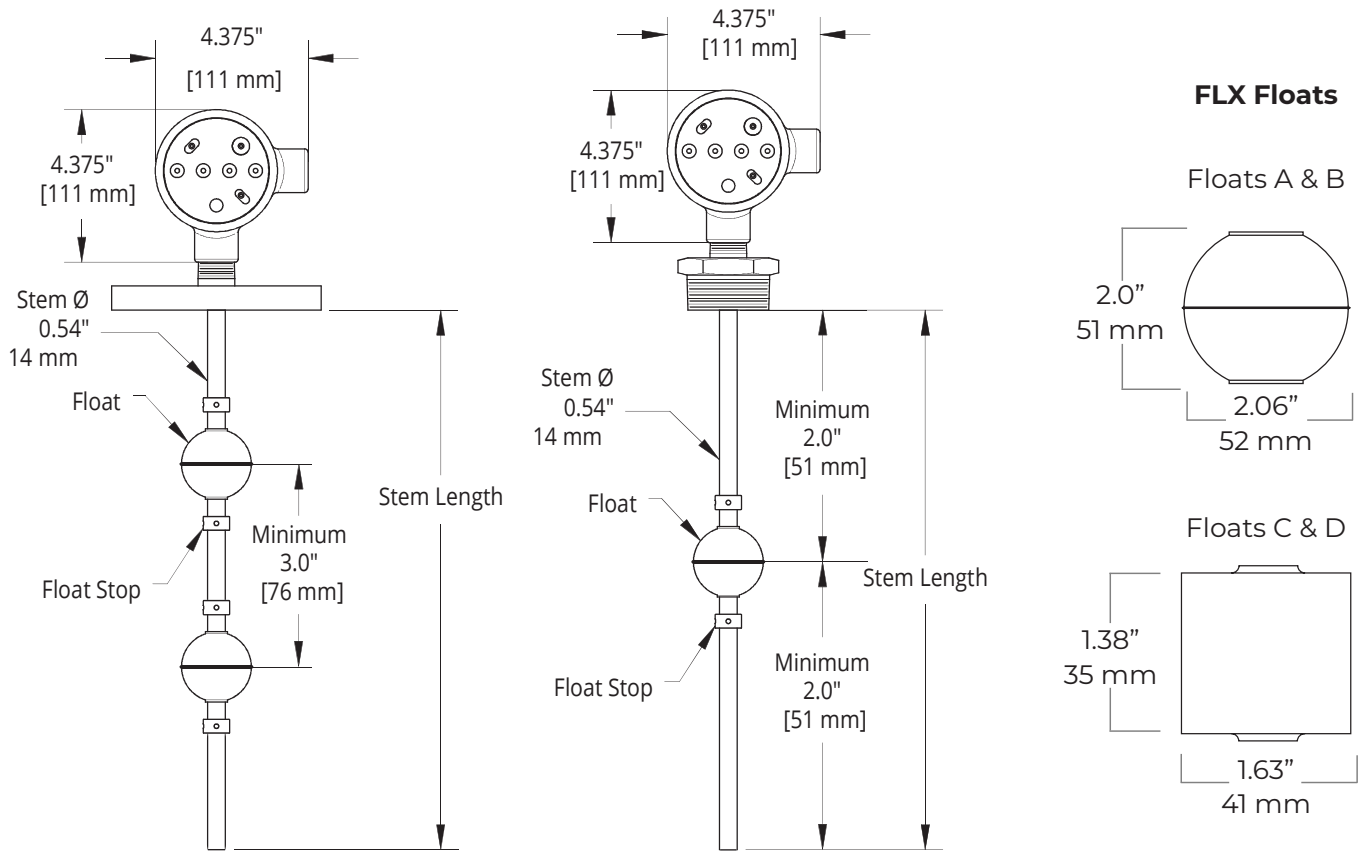


The FLX Magnetic level switch is designed specifically for point level detection of liquids in containers. Available in a wide variety of mounting types, the FLX is appropriate for use in classified flammable liquids. Each FLX is manufactured to the user's specifications, making it fit to work precisely according to the application requirements.

Features

- cCSAus hazardous area rating
- Long switch life
- Durable floats
- Shock resistant construction
- Up to seven switch points

FLX DIMENSIONS



- Maximum Stem Length:
153 inches (3890 mm)
- Distance to first switch (fixed connection):
2 inches (51 mm)
- Distance between switches:
3 inches (76 mm)
- Distance from last switch to bottom of stem:
2 inches (51 mm)

IMPORTANT: The switch points on an FLX cannot be moved, changed, or adjusted.

FLX SPECIFICATIONS

Performance

Switch Points	Up to seven
Maximum Stem Length	153 inches / 12.75 feet / 3890 mm
Minimum Switch Separation	3 inches / 0.25 feet / 76 mm
Float Specific Gravity	0.56, 0.59, or 0.92

Accuracy

Accuracy	± 1/16 inch / 1.6 mm at each switch
Hysteresis	1/16 inch / 1.6 mm

Environmental

Process Temperature		
	Class I Division 2 applications	-40° to 85°C / -40° to 185°F
	Class I Division 1 applications	-40° to 40°C / -40° to 104°F
Enclosure Protection	NEMA 4	

Electrical

Switch Rating		
	Maximum Capacity	Switch A: 50VA Switch C: 180VA
	Maximum Current (AC, 50/60 Hz)	0.5 A
	Maximum Current (DC)	0.5 A
Maximum Voltage		
	Class I Division 1	24 VDC / 220 VAC
	Class I Zone 1	24 VDC
	Class I Division 2	220 VAC

Materials of Construction

Stem	316L Stainless Steel
Floats	316L Stainless Steel
Floats Stops, Misc. Hardware	316L Stainless Steel
Housing	Die Cast Aluminum

Mechanical

Conduit Connection	3/4" NPTM
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Model Number Configuration

Model Number: FLX - _____ - _____ - _____ - _____ - _____
 A B C D E

A. Mounting Type, Option, and Size

- ▣ **0A_*** Flat-face ANSI 150# Flange (size=1.5, 2, 2.5, 3, 4)
- ▣ **1A_*** Raised-face ANSI 150# Flange (size=1.5, 2, 2.5, 3, 4)
- ▣ **3SF_*** Triclamp (size=2, 2.5, 3, 4)
- ▣ **4T_*** Externally-mounted NPT (size=1.5†, 2, 2.5, 3, 4)

B. Reed Switch

- ▣ **A** 50 VA
- ▣ **C** 180 VA

C. Number of Switch Points

- ▣ **1-7** Select the number of switch points required

D. Float Type

- ▣ **A** 316L SS (2.06 in. diameter, 0.59 SG)
- ▣ **B** 316L SS (2.06 in. diameter, 0.92 SG)
- ▣ **C** 316L SS (1.63 in. diameter, 0.56 SG)
- ▣ **D** 316L SS (1.63 in. diameter, 0.92 SG)

*Note: Add an 'S' after Mounting Size for Slide Connection.

For 0AS, add 3.25 in. to min. distance to first float

For 1AS, add 3.25 in. to min. distance to first float

For 3SFS, add 2.5 in. to min. distance to first float

For 4TS, add 4 in. to min. distance to first float

†Note: 1.5 NPT Plug requires floats C or D.

E. Probe Length (Inches)

- ▣ **__** Inches (up to 153 inches)

Switch Point Location(s)

(Measured from process connection)

- ▣ **1** _____ inches (designate NO or NC position)
- ▣ **2** _____ inches (designate NO or NC position)
- ▣ **3** _____ inches (designate NO or NC position)
- ▣ **4** _____ inches (designate NO or NC position)
- ▣ **5** _____ inches (designate NO or NC position)
- ▣ **6** _____ inches (designate NO or NC position)
- ▣ **7** _____ inches (designate NO or NC position)



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