

Level Transmitters

Model FLR-SBDF

WIKA Datasheet FLR-SBDF



Applications

FLR series transmitters are suitable for most industrial and commercial applications including:

- Refinery and chemical industries
- Energy and power plant technology
- Feed water heaters and boilers
- Oil and gas industries
- Offshore exploration and drilling
- Pipeline compressor applications

Product Features

- FLR process temperature ranges from -50°F to 300°F or -45°C to 150°C
- Cast aluminum epoxy coated Cast Aluminum or stainless housings
- FLR is an all in one unit with integrated float for internal mounting
- Optional digital display

Description

The **FLR-SBDF** Series Float Operated Reed Chain Transmitter is a loop-powered, buoyancy based transmitter for direct insertion into process or into **WLC** Series Level Chambers. A variety of resolution options are available depending on application accuracy requirements. Standard housing options include powder coated aluminum with blank or window cover and digital display, or stainless steel.

The **FLR_SBDF** Series transmitter can be constructed with a variety of process connection options and lengths.



FLR-SBDF

Specifications

Housing:

CL.I Gr.BCD/CL.II Gr.EFG/CL.III (CSA, FM, UL)
EEx d IIC T6 CL.I Zone 1 (ATEX)
Ex d IIC T6 CL.I Zone 1 (IEC)
Type 4X / IP66

Options:

- Aluminum/epoxy coated, with blind or window cover
- Stainless Steel, with blind or window cover

Electrical Approvals

Conforms to:

- UL 61010-1
- FM 3600
- FM 3615"

Certified to:

- CAN/CSA Standard C22.2 No. 61010-1 and C22.2#30

Resolutions

5mm (0.197"), 10mm (0.394"), 15mm (0.591")

Options

Process Connection

NPT, ANSI Flange

Power Source

14.5 - 29 VDC

Wetted Parts

316SS

Standards

Safety Requirements for Electrical Equipment for Measurement, Control, and laboratory use - Part 1: General Requirements, UL 61010-1, Issued: 2012/05/11, 3rd Edition, Rev: 2015/07/15

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements, CAN/CSA-C22.2 No. 61010-1, Issued: 2015/07/15. 3rd Edition.

FM 3600 Issue:2011/12/01 Electric Equipment for Use in Hazardous (Classified) Locations - General Requirements


FM 3615 Issued: 2006/08/01 Explosionproof Electrical Equipment General Requirements

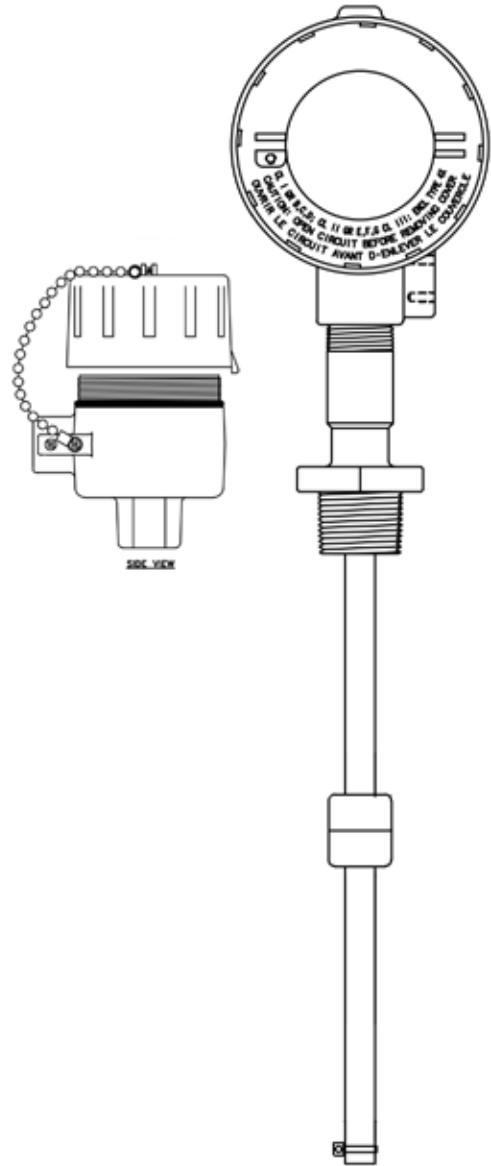
CSA C22.2#30 Issued: 1986/11/01 (R2012) Explosion-Proof Enclosures for Use in Class I Hazardous Locations General Instruction No. 1, 1986, General Instruction No. 2, 1988

FM 3616 Issued: 2011/12/01 Dust - Ignitionproof Electrical Equipment - General Requirements

CSA C22.2#25 Issued: 1966/09/01 (R2014) Enclosures for Use in Class II Groups E, F, and G Hazardous Locations; Gen. Inst. No. 1: 1966

ATEX

 II 2G Ex d IIC T3...T6 Gb
-50°C ≤ Ta ≤ +60°C



The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

FLR-SBDF Selection Guide

Field no.	Code	Description	Field no.	Code	Description
1		Transmitter Style	8		Connection rating
	SF	Single Float Design		A	150# ANSI
2		Sensor tube diameter		B	300# ANSI
	12	12mm (.48")		C	600# ANSI
	14	14mm (.55")		D	NPT 1,000 psi
3		Wetted parts	9		Electronics
	S	316 Stainless steel		1	24 VDC loop powered transmitter
4		Resolution		2	24 VDC loop powered transmitter with integral LCD indicator in explosion proof enclosure
	A	5mm (.19")	10		Housing
	B	10mm (.39")		ABX	Aluminum housing
	C	15mm (.59")		AWX	Same as ABX but with window cover to view digital indicator
	D	18mm (.70")		SBX	Same as ABX but stainless steel construction
5		Units of measure		SWX	Same as SBX but with window cover to view digital indicator
	I	Imperial			
	M	Metric			
6		Sensor length			
	XXXX	Dimensions in inches or millimeters (Example 44" = 0044) Up to 120" for 12mm, 14mm, 16mm, 240" for 18mm and 480" for 48mm sensor tubes			
7		Connection size and type			
	F10	1.0" ANSI flange			
	F15	1.5" ANSI flange			
	F20	2.0" ANSI flange			
	F25	2.5" ANSI flange			
	F30	3.0" ANSI flange			
	F40	4.0" ANSI flange			
	F50	5.0" ANSI flange			
	F60	6.0" ANSI flange			
	N05	1/2" NPT			
	N75	3/4" NPT			
	N10	1.0" NPT			
	N15	1.5" NPT			
	N20	2.0" NPT			
	NAD	NPT Adjustable fitting (size varies)			

MODEL
Transmitter style
Sensor tube diameter
Wetted parts
Resolution
Units of measure
Sensor length
Connection size and type
Connection rating
Electronics
Housing

FLR-SBDF

Field no.
 1 2 3 4 5 6 7 8 9 10

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