

# Level Transmitters

## Model BLR-SBDF

WIKAI Datasheet BLR-SBDF



### Applications

BLR 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 600°F or -45°C to 315°C
- Cast aluminum epoxy coated Cast Aluminum or stainless housings
- Optional digital display

### Description

The **WIR** Series Reed Chain Indicator Transmitter is loop-powered, providing an output for the **WMI** Series Magnetic Level Indicator. A variety of resolution options are available depending on application accuracy requirements. Standard housing options include aluminum with blank or window cover and digital display, or stainless steel.

The **WIR** transmitter length will coincide with the measuring range of the **WMI** Series Magnetic Level Indicator.



BLR-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

### Connection

Attaches to WMI Magnetic Level Indicator

### Power Source

14.5 - 29 VDC

### Sensor Material

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

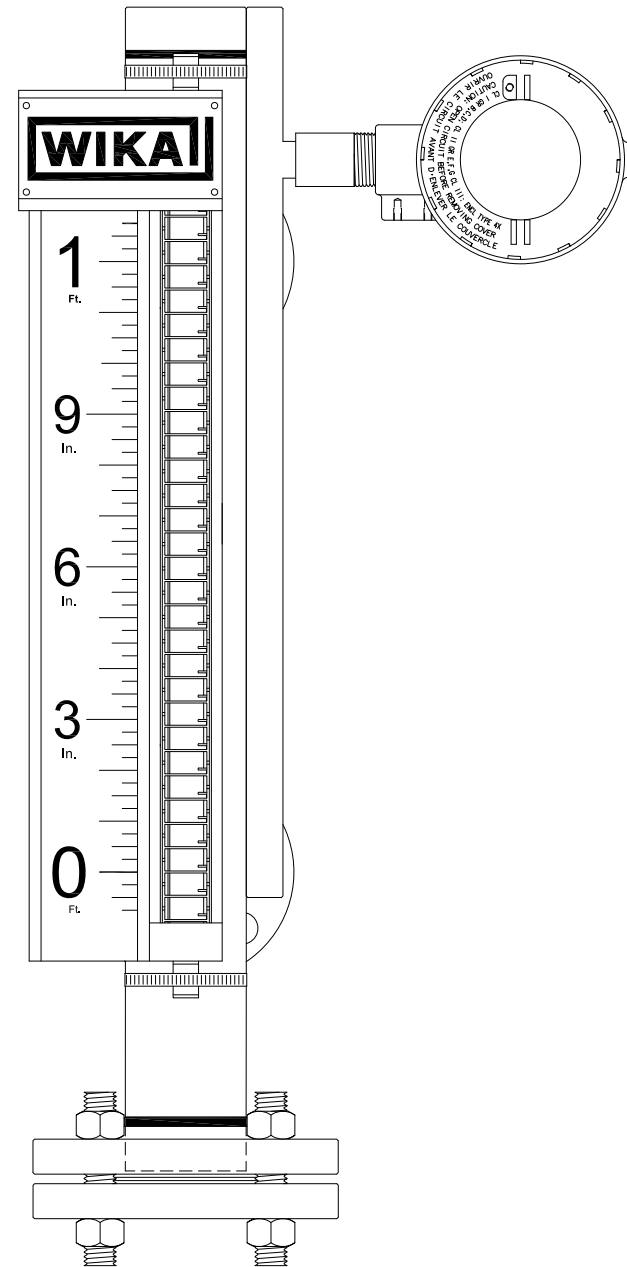
FM 3616 Issued: 2011/12/01 Dust - Ignitionproof Electrical Equipment - General Requirements

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

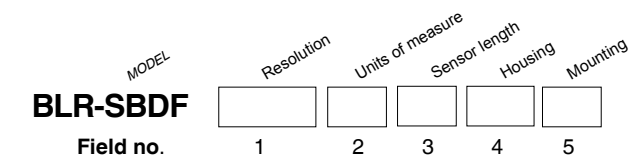
### ATEX



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



| BLR-SBDF Selection Guide |      |   |  |  |
|--------------------------|------|---|--|--|
| Field no.                | Code | Description   |  |  |
| 1                        |      | <b>Resolution</b>   |  |  |
|                          | 05   | 5mm (.19")  |  |  |
|                          | 10   | 10mm (.39")   |  |  |
| 2                        |      | <b>Units of measure</b>                                     |  |  |
|                          | I    | Imperial  |  |  |
|                          | M    | Metric  |  |  |
| 3                        |      | <b>Sensor length</b>  |  |  |
|                          | XXXX | Dimensions in inches or millimeters (Example 44" = 0044)    |  |  |
| 4                        |      | <b>Housing</b>  |  |  |
|                          | ABX  | Aluminum housing FM approved, XP/L/1/BCD/T6 DIP/II/EFG/T3C  |  |  |
|                          | AWX  | Same as ABX but with window cover to view digital indicator |  |  |
|                          | SBX  | Same as ABX but stainless steel construction                |  |  |
| 5                        |      | <b>Mounting</b>   |  |  |
|                          | U    | Upper mount   |  |  |
|                          | L    | Lower mount   |  |  |



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