

# FLO-TEL 2

NON-INVASIVE, REUSABLE BURST DETECTION SENSOR

**Eliminate re-wiring costs with Flo-Tel, a non-invasive, practical and reusable solution for detecting when a rupture disc has functioned.**



Operating on a simple reed switch and magnet technology, the Flo-Tel sensor fits into a holder with a magnet on the rupture disc. When the disc bursts, the magnet arcs away from the sensor, giving an open circuit signal.

Flo-Tel is non-invasive to the process and is therefore unaffected by downstream pressure fluctuations or corrosion. Using Flo-Tel eliminates leak paths and the risk of false alarms associated with traditional membrane-type detection systems. After rupturing, the disc is the only element that needs replacing, which eliminates the need for expensive re-wiring costs and maintenance planning.

**Temperature** -148°F to 572°F

**IP rating** 66

**Cable lengths available** 2m, 5m, 10m

**Connection** Flo-Tel must be connected to an intrinsically safe supply

**Let us help you with all  
your pressure relief questions.**

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# TECHNICAL SPECIFICATIONS



|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| Temperature range       | -148°F to 572°F (-100°C to 300°C)                          |
| IP rating               | 66                                                         |
| Product markings        | II 1G Ex ia IIC Ga<br>II 1D Ex ia IIIC Da                  |
| Cable lengths available | 2m, 5m, 10m                                                |
| Connection              | Flo-Tel must be connected to an intrinsically safe supply  |
| Design Standards        | Complies with EN IEC 60079-0:2018 and EN IEC 60079-11:2012 |

## Values for intrinsically safe connection

$U_i = 28\text{V}$   
 $I_i = 84\text{mA}$   
 $P_i = 0.55\text{W}$   
 $L_i = 4.1\mu\text{H}$   
 $C_i = 3.64\text{nF}$

T6 (T85°C) ( $t_a = -100^\circ\text{C}$  to  $50^\circ\text{C}$ )  
T5 (T100°C) ( $t_a = -100^\circ\text{C}$  to  $90^\circ\text{C}$ )  
T4 (T135°C) ( $t_a = -100^\circ\text{C}$  to  $125^\circ\text{C}$ )  
T3 (T200°C) ( $t_a = -100^\circ\text{C}$  to  $190^\circ\text{C}$ )

Maximum process temperature =  $+300^\circ\text{C}$

## Certifications

ATEX (CE)  
UKEx (UKCA)  
IECEX

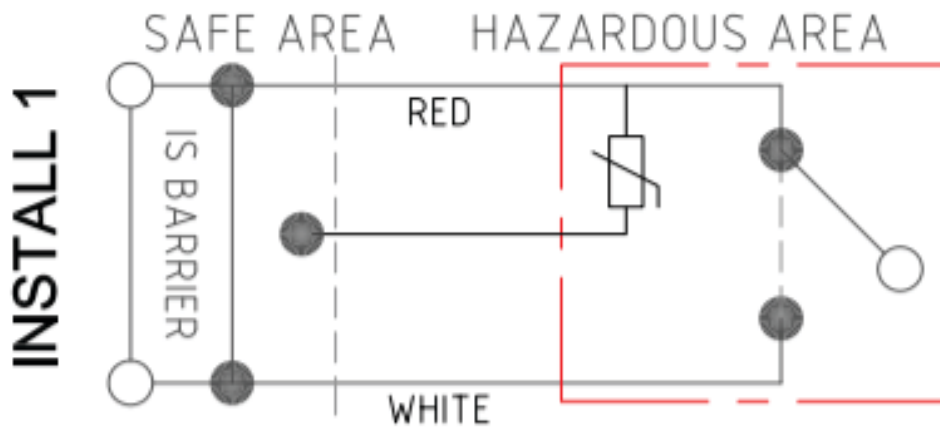
## Related Products

### Holders

REVERSE DISC HOLDER  
FORWARD DISC HOLDER  
OPR/OPK HOLDER

### Sensors and Installation Tools

FLO-TEL XD  
TEST-TEL



IS BARRIER: INSTALL 1

$U_i \leq 28V$

$I_i \leq 84mA$

$P_i \leq 0.55 W$

$C_i = 0$

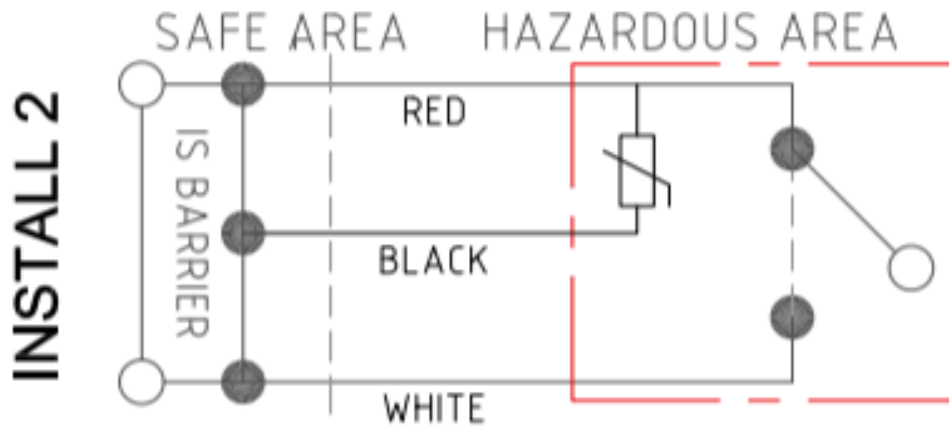
$L_i = 0$

**FT**



+ 300°C

- 100°C



IS BARRIER: INSTALL 2

$U_i \leq 3.9V \text{ dc}$      $C_i = 0$

$I_i \leq 2mA$      $L_i = 0$

$P_i \leq 7.8mW$

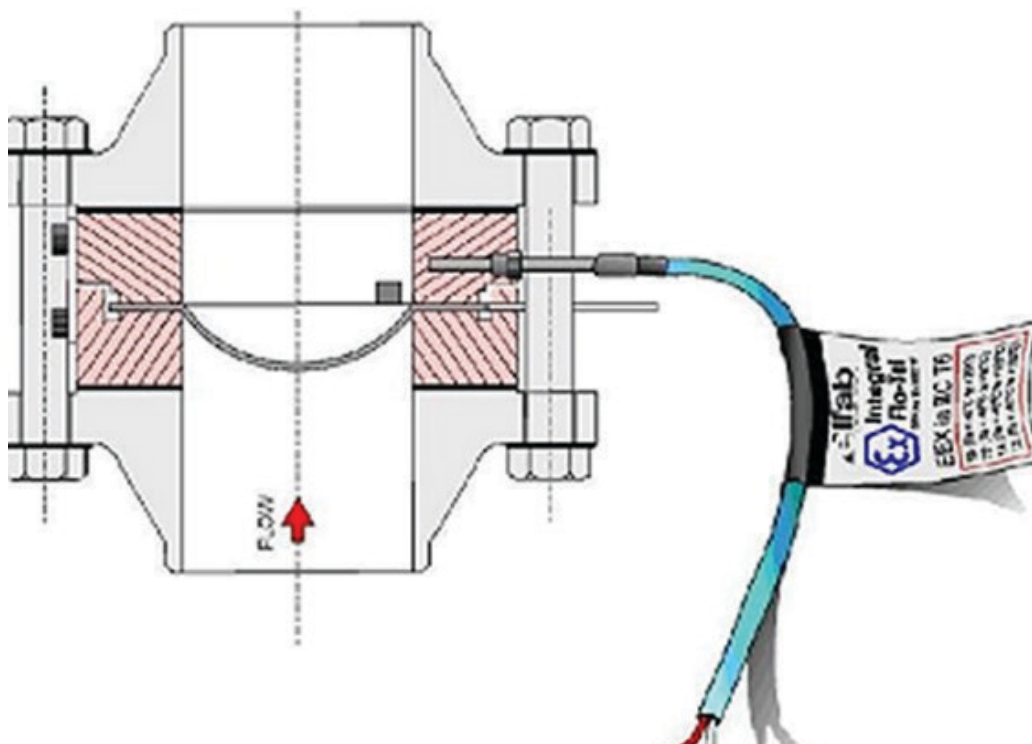
**FT**



+ 300°C

- 100°C

## Schematic Drawing



## Cutaway image

