

LFS SERIES

PADDLE FLOW SWITCHES



The LFS range of flow switches are paddle devices that are mounted vertically through a socket or upstand process connection.

Electrical connections are made within the housing, which has a screw on sealed lid and cable gland.

A choice of paddle sizes is supplied with each switch and selection can be made with reference to the chart below.

Features

- Stainless steel SS304 paddle
- 3/4" BSP or 1" NPT mounting plug thread
- IP65 Aluminium alloy housing or DIN 43650 connection
- Use for flow detection in pipes from 1" bore to 3" bore
- Maximum operating pressure 20 bar

SPECIFICATIONS

Technical

| | | | |
|----------------------------|-----------------|---------------------------------------|-------------|
| Housing material | Aluminium Alloy | Paddle material | 304grade SS |
| Temperature range | See chart below | Maximum pressure | 20 bar |
| Set point tolerance | ±25 % | Pressure drop | 0.2 bar |
| Repeatability | ±5% | Connection in housing or by DIN 43650 | |

Electrical

| | | |
|------------------------------------|----|------|
| Contact Form | | SPDT |
| Switching Power Max | VA | 40 |
| Switching Voltage AC/DC Max | V | 230 |
| Switching Current Max | A | 1.0 |

All ratings are for resistive load only.

STANDARD PARTS

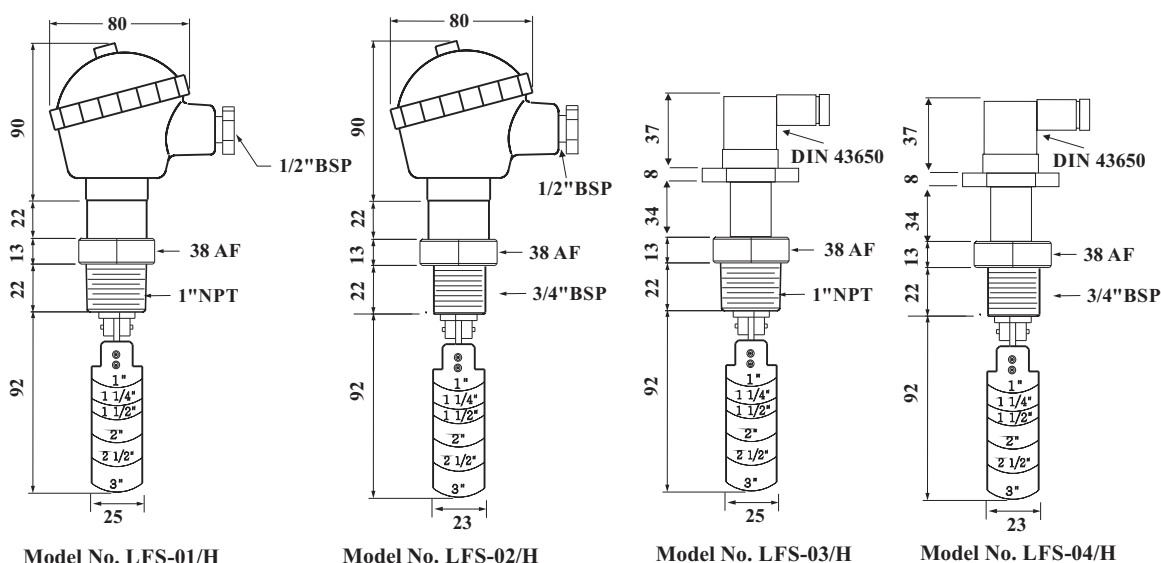
| Standard Parts | Mounting thread | Operating Temperature | Connection |
|----------------|-----------------|-----------------------|----------------------|
| LFS-01 | 1" NPT | -30 to +75°C | Terminate in housing |
| LFS-01H | 1" NPT | -30 to +150°C | Terminate in housing |
| LFS-02 | 3/4" BSP | -30 to +75°C | Terminate in housing |
| LFS-02H | 3/4" BSP | -30 to +150°C | Terminate in housing |
| LFS-03 | 1" NPT | -30 to +75°C | DIN 43650 |
| LFS-03H | 1" NPT | -30 to +120°C | DIN 43650 |
| LFS-04 | 3/4" BSP | -30 to +75°C | DIN 43650 |
| LFS-04H | 3/4" BSP | -30 to +120°C | DIN 43650 |

| Pipe Dia | 1" | | 1.25" | | 1.50" | | 2" | | 2.5" | | 3" | |
|---------------|----|-----|-------|-----|-------|-----|----|-----|------|-----|-----|-----|
| Switch | Op | Rel | Op | Rel | Op | Rel | Op | Rel | Op | Rel | Op | Rel |
| Paddle length | | | | | | | | | | | | |
| 1" | 19 | 15 | 32 | 25 | 46 | 34 | 64 | 57 | | | | |
| 1.25" | | | 25 | 17 | 34 | 27 | 57 | 46 | 87 | 76 | | |
| 1.50" | | | | | 53 | 38 | 87 | 61 | 121 | 95 | | |
| 2" | | | | | | | 68 | 46 | 91 | 64 | 125 | 102 |
| 2.5" | | | | | | | | | 76 | 49 | 102 | 121 |
| 3" | | | | | | | | | | | 83 | 61 |

NB: Flow rates in litres per minute

Wiring Detail (LFS 03/04):-
 Pin 1 = Common
 Pin 2 = Make on flow (N/O)
 Pin 3 = Break on flow (N/C)

DIMENSIONS



Made in the UK

Page 2

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