

- Operation in wide flow rates for water & oil
- Enhanced microcontroller technology
- Insensitive to pulsating and entrapped air
- Response time of only 15 seconds
- Up to 25 bar process pressure
- Up to 140 °C process temperature
- Easy programming and calibration
- Self diagnostics and troubleshooting
- Local indicator available
- IP65 Protection class
- Explosion-proof version available

BESKRIVNING

BASI's BFS100 flow switch is designed to operate with low viscosity, non-viscous or dirty liquids with moderate flow rates as water and water solutions, oil, and fuels. This model uses the well-known principle of thermal dispersion, based on the measurement of temperature difference deviation due to the flow rate via two temperature sensors immersed in the controlled medium. An output relay switches when the flow rate reaches the set-point value after maximum 15 sec. response time. An enhanced microcontroller design allows simple user calibration and continuous self-diagnostic.

Local programmable indicator for process temperature is also available as an option.

TECHNICAL SPECIFICATIONS

- Housing** : Aluminium head type "G" (IP65) or ATEX-approved EEx 'd' head type "EG" (IP68)
- Wetted parts** : SS304 (1.4301)
- Adjustment** : Rotary switch
- Indication** : Green LED output, red LED setting
- Digital indicator** : Process temperature (option)
- Flow range** : 0,01 to 1,5 m/sec (water)
0,02 to 3 m/sec (oil)
- Warm-up time** : 45 sec
- Process connection** : G 1", 1"NPT
- Probe length** : 40 to 250mm

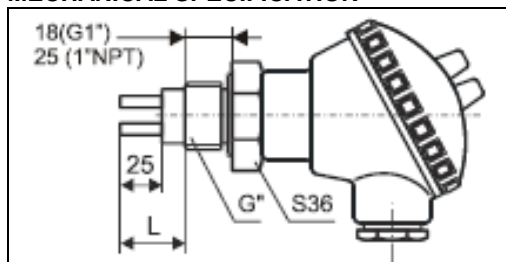
ADJUSTMENT

- Span calibration** : 0-60 sec
- Zero Calibration** : 0-60 sec
- Hysteresis** : 10% of span
- Output delay** : 2 sec (factory set) (hold time)
- Response time** : ≈ 15 sec (depending of media and application)

OUTPUT

- Relay contact** : SPDT 250VAC 3A activates at flow rate over set-point
- Function** : Change-over
- Relay life** : 10⁷ operations

MECHANICAL SPECIFICATION



INSTALLATION

- Power supply** : 24VDC ± 10%
- Power consumption** : Max 6VA
- Ambient temp** : -10 to +65°C
- Process temperature**: 0-100 °C (CIP up to 140 °C)
- Process pressure** : Up to 25 bar
- Protection** : IP65
- Mounting** : In process G 1", 1"NPT
- Weight** : Max 500g
- EMC** : EN 50081-1, EN 50082-2, EN 61010-1
73/23/EEC & 89/336/EEC



ORDER INFORMATION

BFS100	FLUID	HOUSING	SENSOR LENGTH	CONNECTION
W	Water	G IP65	X Specify	Q12 G 1"
L	Oil	(head type G)	L=40-250mm	Q15 1" NPT
		EG ATEX EEx 'd'		
		(head type EG IP68)		