



OVERVIEW

Operation

BKFS Calorimetric Flow Switch is a compact flow switch designed for flow monitoring in liquid lines. The device is used for flow / no-flow detection in pump protection, cooling circuits, lubrication lines, and general industrial process applications.

Application

- Pump protection.
- Cooling water lines
- Lubrication systems
- Circulation lines
- Machine protection applications
- Industrial liquid lines

Features

- Calorimetric measuring principle
- Flow/no-flow detection
- Compact stainless steel housing
- LED status indication
- Industrial electrical connection
- No moving parts
- Easy installation
- Design suitable for industrial use



TECHNICAL DATA

Set up Range

1...150cm/s (water)
3...300cm/s (oil)
20...2000 (air)

Signal Output

NPN, PNP, Relay, Analog (4...20mA), Normally open+normally closed (SPDT)

Power Supply

24V $\pm$ 20% DC

Power

Max. 400mA (PNP or NPN type) up to
1A@48VAC/DC (relay type)

No Load Current

Up to 80mA

Flow Indication

LED

Setting Method

Potentiometer setup

With Stand Voltage Range

100 Bar

Medium Temperature Change

$\leq 4^{\circ}\text{C/s}$

Response Time

1...13s, typical value 2s

Initialization Time

About 8s

Electrical Protection

Reverse phase
Short circuit
Overload protection

Protection Class

IP67

Medium Temperature

-20...+100°C

Ambient Temperature

-20...+80°C

Storage Temperature

-20...+100°C

Wiring Method

M12 connector

Repeatability

$\pm 2\%$

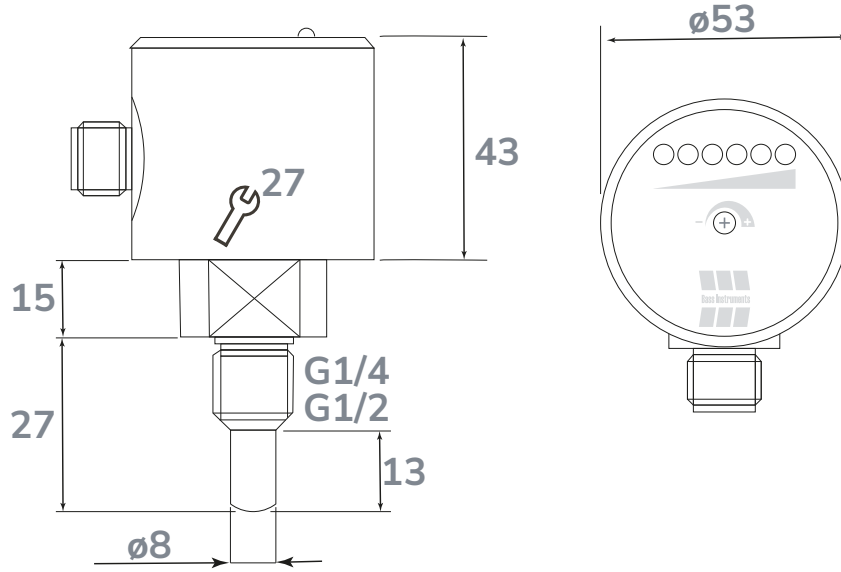
MATERIALS

Material Of Probe

Stainless steel housing



TECHNICAL DRAWINGS AND DIMENSIONS



ORDERING

Model	
BKFS	Calometric Flow Switch

Power Supply	
DC	24 VDC
AC	230 VDC

Output	
P	PNP output
N	NPN output
R	Relay output
A	4...20 mA output

Probe Length	
15	15 mm
25	25 mm

Process Connection	
015	G 1/2"
025	G 1"

Enclosure / Hazardous Area	
NN	IP67
Ex D	Ex d IIC T6 Gb
Ex ia	Ex ia II C T6

