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- Attractive price
- Operation in wide flow rates for water and oil
- Response time of only 15 seconds
- **Enhanced microcontroller technology**
- Easy programming and calibration
- Self diagnostics and troubleshooting
- Local indicator available

Technical specifications

Input

- water - oil

Output Output type

Flow rate range:

Zero calibration

Span calibration

Contact type

Output action

Response time

Switching hysteresis

Set-point adjustment

Temperature drift

Output delay (hold time)

Warm-up (preheating) time

Operating principle

IP65 protection class

COMECO's PSF100 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-know 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.



Am

approx. 0.01 to 1.5 m/s

temperature dispersion

max. 60 sec, programmable

max. 60 sec, programmable

activates at flow rate over set-point

programmed by rotary switch

approx. 0.02 to 3 m/s

1 relay 3A/250 VAC

approx. 15 sec.

≤ 10% of span

2 sec

0.25 %/°C

max. 45 sec.

1 changeover (SPDT)

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Voltage	24 VDC ± 10%
Permissible ripple	0.5 Vp-p at 50 Hz
Power consumption	max. 6 VA
Controls	
Output indicator	green LED

Output indicator	green LED
Setting/Calibration indicator	red LED
Programming	button
Local indicator (option)	TI200, for process temperature
Media properties	_

weara	a pro	pert	ies
Eluid	nrono	rtion	

Power supply

Fluid properties	non-viscous or dirty liquids
Fluid type	typical: water, oil
Fluid temperature	0 to 100 °C
CIP temperature	up to 140 °C
Process pressure	up to 25 Bar
Ambient conditions	_
Ambient temperature	-10 to 65 °C

bient numidity	0 to 95 %RH
bient humidity	0 to 95 %RH
bient temperature	-10 to 65 °C

	Time for the first that the first th	
Model	PSF100	
Design Specifications	25 min. 99	
Process connection ("G")	G ¾", G 1", ¾" NPT, 1" NPT	
Probe operating length ("L")	25 to 250 mm (specified in order)	
Electrical wiring	screw terminals inside the housing	
Housing material (protection)	aluminum (IP65) head type "G" or head type "EG" (with local indicator)	
Wetted parts	304 Stainless Steel (1.4301)	
Weight	max. 500 g	

Ordering code



PSF100* - G6.G9 - #1

Code	Feature or option	Code values
*	Variant	W - for water (and water solutions), L - for oil (and fuels)
G6	Operating probe length (L)	25250 mm - specify the exact length
G9	Process connection	Q6 - G3/4", Q11 - 3/4" NPT, Q12 - G1", Q15 - 1" NPT
#1	Local temperature indicator Tl200 (1)	X - none, A - mounted local indicator for process temperature

⁽¹⁾ See TI200 specifications