DS52

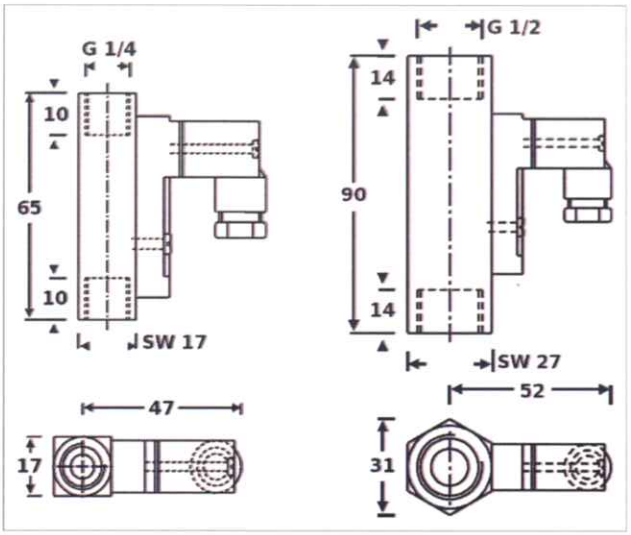
Low Cost Miniature Variable Area Flow Switch

- complete stainless steel design
- universal mounting position
- small mounting dimensions
- high switching accuracy
- for low viscosity liquids
- small switch hysteresis

Description:
The flow switch model DS52 works according to a modified variable area principle. The float is guided in a cylindrical measuring tube by means of a spring. The flowing medium moves the float in the flow direction. A Reed contact is mounted outside the meter in a sealed housing. When the float reaches the position of the Reed contact the switch will close. With higher flows the float moves further upward until it reaches a built-in float stop, still keeping the switch closed. This ensures a bistable switch function at any time. The Reed contact is adjustable over the full switching range of the meter.

Applications:
The variable area flow switch model DS52 is used for monitoring the flow of low viscosity liquids, e.g. in cooling circuits and laser systems, for pump monitoring, compressors and many other applications.

Dimensions:



Ordering Code:

Order number: DS52. | 2. | W21. | 1

Low Cost Miniature Variable Area Flow Switch

Connection:
1 = G 1/4 female
2 = G 1/2 female

Measuring range:

DS52.1 only (G 1/4 connection):
- W101 = 5...60 ml/min
- W102A = 40...130 ml/min
- W106 = 0,1...0,6 l/min
- W11 = 0,2...1,2 l/min
- W12 = 0,4...2 l/min
- W13 = 0,5...3 l/min
- W15 = 1,0...5 l/min

DS52.2 only (G 1/2 connection):
- W202 = 0,02...0,2 l/min
- W206 = 0,2...0,6 l/min
- W21 = 0,4...1,8 l/min
- W23 = 0,8...3,2 l/min
- W27 = 2...7 l/min
- W213 = 3...13 l/min
- W220 = 4...20 l/min
- W230 = 8...30 l/min

Contact:
1 = function N/O
2 = function SPDT

Electrical Contact:

DS52.1 (G 1/4 connection)

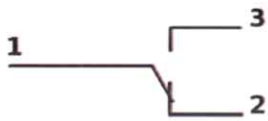
Function N/O:	200 V / 1 A / 20 VA
Function SPDT:	200 V / 1 A / 20 VA

DS52.2 (G 1/2 connection)

Function N/O:	230 V / 3 A / 60 VA
Function SPDT:	250 V / 1,5 A / 50 VA

Function N/O

Function SPDT



Technical Data:

Max. Pressure:	350 bar
Pressure drop:	DS52.1: 0,02...0,6 bar DS52.2: 0,02...0,3 bar
Max. Temperature:	100°C
Materials:	1.4571, Magnet: Ferrite
Electr. Connection:	Plug acc. to DIN EN 175301-803
Accuracy:	± 10% FS