

Data sheet

Mini float switch in brass with plug connection 6-pole

Order key

M60. 2 . A1 . B4 . 100 . 200 . 13 . 01 . 8 . 600

Type mini float switch M60

Material tube
brass tube ø8 --2

Function switching point A 24V/150mA

closes on level rise -- A1
opens on level rise -- A2
closes on level drop -- A3
opens on level drop -- A4
change over contact -- A5

Function switching point B (1 switching point) 24VDC/150mA (2 switching points)

closes on level rise -- B1
opens on level rise -- B2
closes on level drop -- B3
opens on level drop -- B4
change over contact -- B5

Comment:
For a device with only one
switching point please use
switching point B
Example: M60.1.B4.100.01.01.8

Switching point SPA
in mm according to customer's indication

Switching point SPB
in mm according to customer's indication

Optional

Temperature switch:
Technical data

60°C n. c. contact --- 600
65°C n. c. contact --- 650
70°C n. c. contact --- 700
75°C n. c. contact --- 750
85°C n. c. contact --- 850

Temperature sensor PT100

Technical data
PT100 2 wire --- PT100
PT100 3 wire --- PT103
PT100 4 wire --- PT104

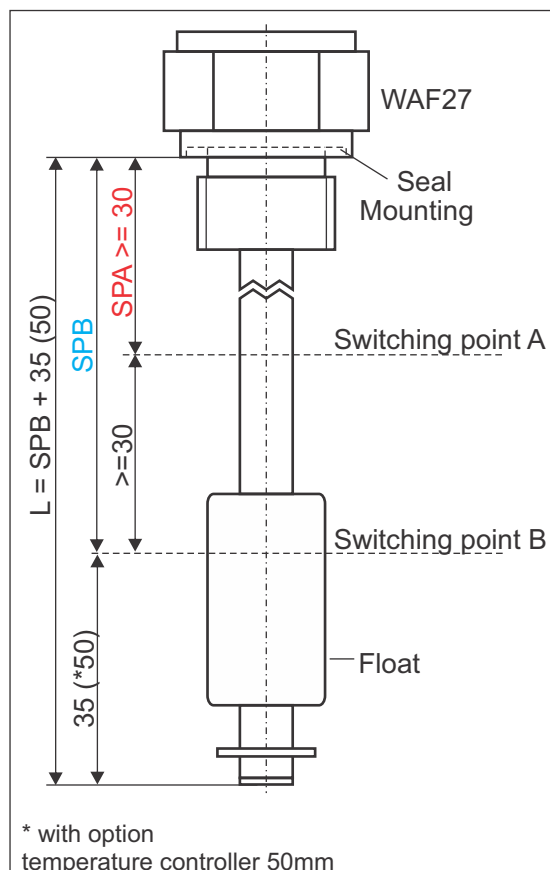
Temperature sensor PT1000

Technical data
PT1000 2 wire --- Pt1000

Float
ø17,8x32mm Material NBR --- 8

Mounting material alu
screw connection M20x1,5 --- 01
screw connection 1" ----- 22

Connection
6 pol + PE to
DIN EN 175201-804
(DIN 43651) -- 13

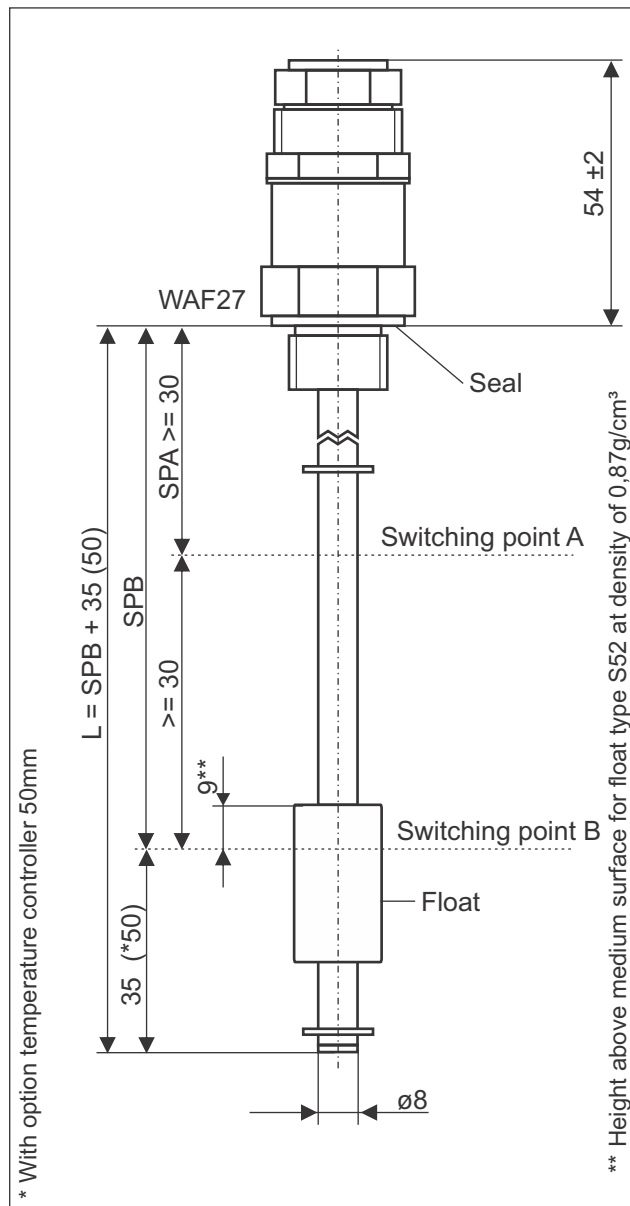


Data sheet

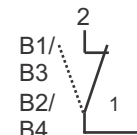
Mini float switch in brass with plug connection 6-pole

Type: M60...13.01.8

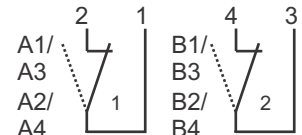
Mounting M20x1,5



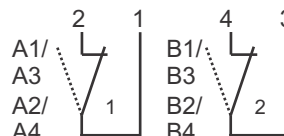
Example for Terminal diagrams



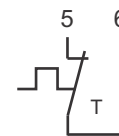
1 x NO/NC contact
e.g.: order key:
M60.1.B1.80.13.01.1



2 x NO/NC contact
e.g.: order key:
M60.2.A2.B4.60.200.13.01.1



2 x NO/NC contact
e.g.: order key:
M60.2.A2.B4.60.200.13.01.1.700



1x Temperature switch

Technical data:

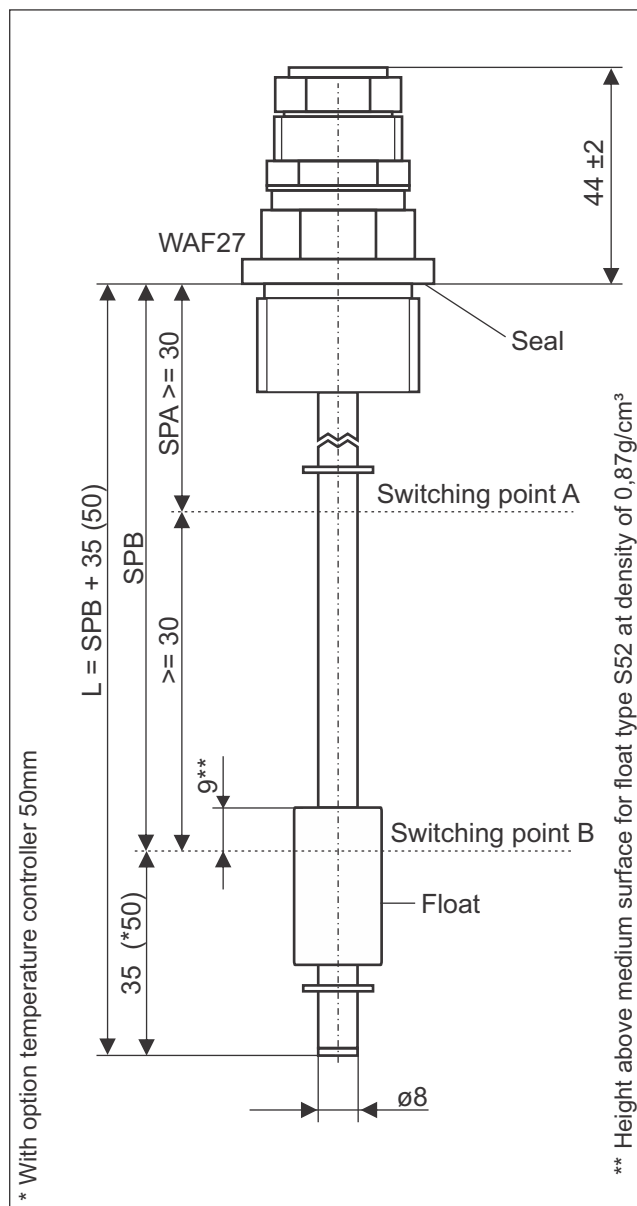
Connection:	6 pole + PE connector acc. DIN EN 175201-804 (DIN 43651), material PET
Mounting:	thread M 20x1,5, material aluminium
Mounting position:	vertical ± 10°
Seal:	profile seal, material NBR
Sliding tube:	ø8mm material brass, length and material acc. to customer specification
Float:	ø17,8x32mm, material NBR, type S52
Reed contact:	max. 2x reed contacts n.o. contacts / n.c. contacts, function Bistable
Switching voltage:	max. 230VAC for one switching point; for two switching point max. 24VDC
Switching current:	1A for one switching point; for two switching points 150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to 100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

Data sheet

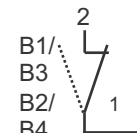
Mini float switch in brass with plug connection 6-pole

Type: M60...13.22.8

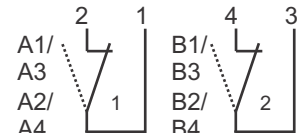
Mounting 1"



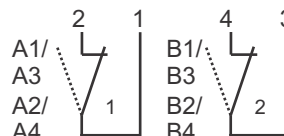
Example for Terminal diagrams



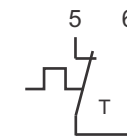
1 x NO/NC contact
e.g.: order key:
M60.1.B1.80.13.01.1



2 x NO/NC contact
e.g.: order key:
M60.2.A2.B4.60.200.13.01.1



2 x NO/NC contact
e.g.: order key:
M60.2.A2.B4.60.200.13.01.1.700



1x Temperature switch

Technical data:

Connection:	6 pole + PE connector acc. DIN EN 175201-804 (DIN 43651), material PET
Mounting:	thread 1", material aluminium
Mounting position:	vertical $\pm 10^\circ$
Seal:	profile seal, material NBR
Sliding tube:	$\varnothing 8$ mm material brass, length and material acc. to customer specification
Float:	$\varnothing 17,8 \times 32$ mm, material NBR, type S52
Reed contact:	max. 2x reed contacts n.o. contacts / n.c. contacts, function Bistable
Switching voltage:	max. 230VAC for one switching point; for two switching points max. 24VDC
Switching current:	1A for one switching point; for two switching points 150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to 100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

Data sheet

Mini float switch in brass with plug connection 6-pole Optional Temperature switch, PT100 and PT1000

Temperature switch:

Temperature switch point ranges:

Switching temperature	Reset temperature	Switching temperature	Reset temperature
40°C±5K	≥ 27°C	95°C±5K	70°C±15K
45°C±5K	≥ 30°C	100°C±5K	70°C±15K
50°C±5K	≥ 33°C	105°C±5K	75°C±15K
55°C±5K	34-47°C	110°C±5K	75°C±15K
60°C±5K	35-52°C	115°C±5K	80°C±15K
65°C±5K	36-57°C	120°C±5K	85°C±15K
70°C±5K	38-60°C	125°C±5K	90°C±15K
75°C±5K	38-63°C	130°C±5K	95°C±15K
80°C±5K	55°C±15K	135°C±5K	100°C±15K
85°C±5K	60°C±15K	140°C±5K	105°C±15K
90°C±5K	65°C±15K	145°C±5K	105°C±15K

Technical data:

Technology: bimetal

Accuracy: ±5K

Switching voltage: 230VAC - connection 01, 10, 13

24VDC - connection 02, 08, 09, 12, 17

Switching current: 1A - connection 01, 10, 13

150mA - connection 02, 08, 09, 12, 17

Temperature sensor PT100

PT100 2 wire --- **PT100**

PT100 3 wire --- **PT103**

PT100 4 wire --- **PT104**

Technical data:

Nominal resistance: 100 Ohm at 0°C

Tolerance: DIN EN 60751, class B

Temperature coefficient: TK = 3850ppm/K

Temperature range: -20 up to 100°C

Self-heating: 0,4K/mW

Temperature sensor PT1000

PT1000 2 wire --- **PT1000**

PT1000 3 wire --- **PT1003**

Technical data:

Nominal resistance: 1000 Ohm at 0°C

Tolerance: DIN EN 60751, class B

Temperature coefficient: TK = 3850ppm/K

Temperature range: -20 up to 100°C

Self-heating: 0,2K/mW