Data sheet
Mini float switch in stainless steel with plug connection M12

Order key

M60. 2 . A1 . B4 . 100 . 200 . 02 . 01 . 8 . 60O

Type mini float switch M60

Material tube
stainless steel 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 24VDC/150mA

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

Connection
M12 4 pol --- 02
M12 5 pol --- 08
M12 6 pol --- 17
M12 8 pol --- 12

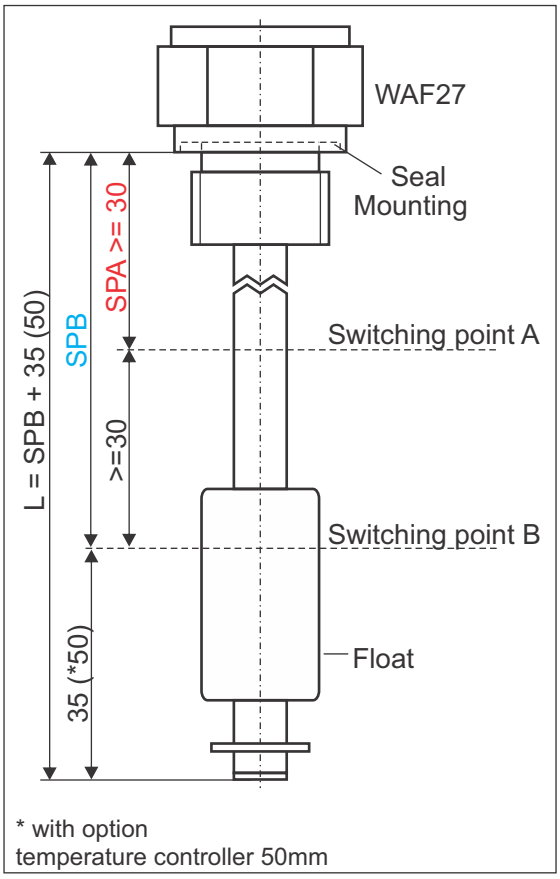
Optional
Temperature switch:
Technical details
60°C n. c. contact --- 60O
65°C n. c. contact --- 65O
70°C n. c. contact --- 70O
75°C n. c. contact --- 75O
85°C n. c. contact --- 85O

Temperature sensor PT100
Technical details
PT100 2 wire --- PT100
PT100 3 wire --- PT103
PT100 4 wire --- Pt104

Temperature sensor PT1000
Technical details
PT1000 2 wire--- Pt1000

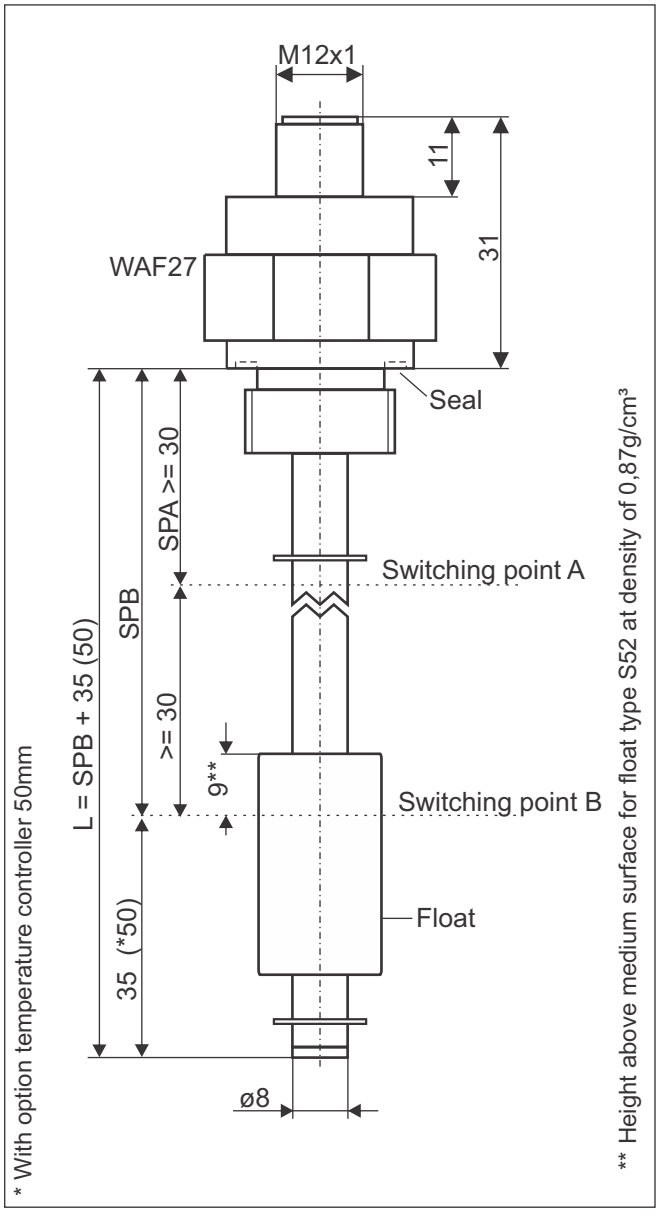
Float
ø17,8x32mm material NBR --- 8

Mounting material alu / PA6
screw connection 1/2" --------- 27
oval flange Lk55 ---------- 23
screw connection 3/4" --------- 13
round flange ø74 Lk60 ------- 46
screw connection M20x1,5 --- 01
screw connection 1" ---------- 22
screw connection M24x1,5 --- 33
screw connection M22x1,5 --- 24



* with option
temperature controller 50mm

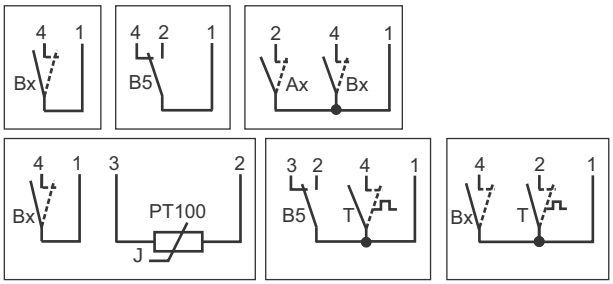
Data sheet
Mini float switch in stainless steel with plug connection M12
Type: M60...02.27.8
Mounting 1/2”



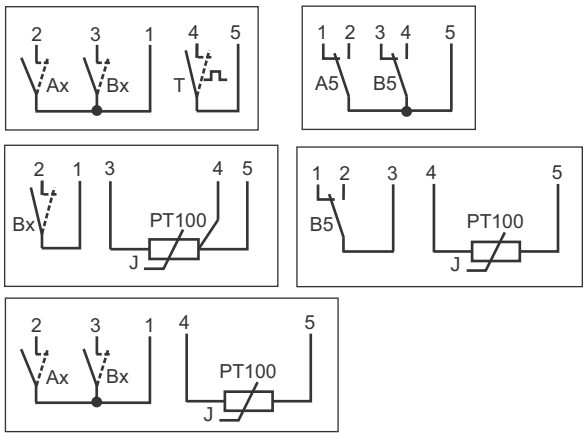
Terminal diagrams

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



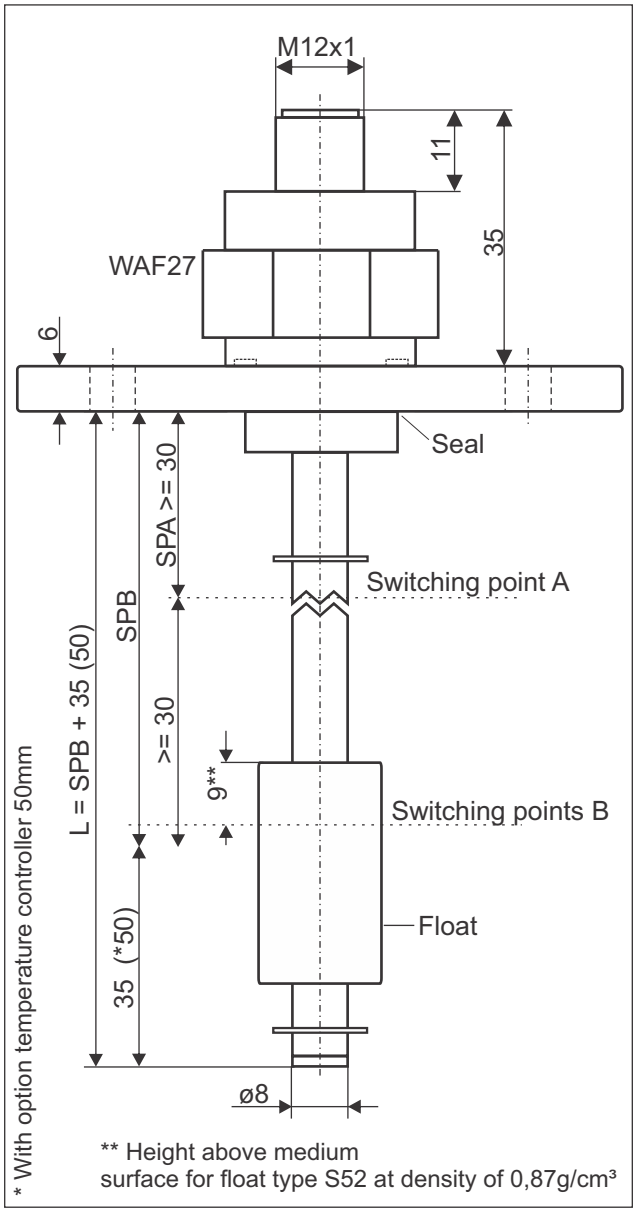
M12 5Pol (08)



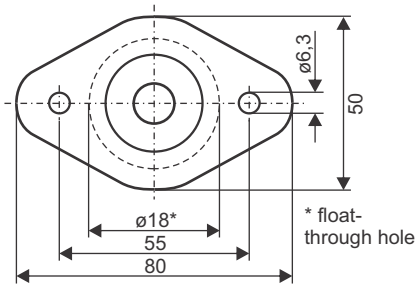
Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	thread 1/2”, material aluminium
Mounting position:	vertical ± 10°
Seal:	profile seal, material NBR
Sliding tube:	ø8mm material stainless steel, 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. contactc or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

Data sheet
Mini float switch in stainless steel with plug connection M12
Type: M60...02.23.8 / M60...08.23.8
Mounting oval flange



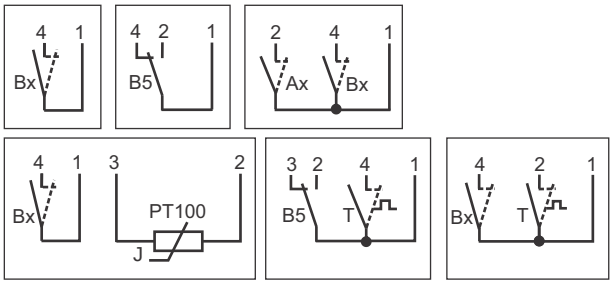
View A



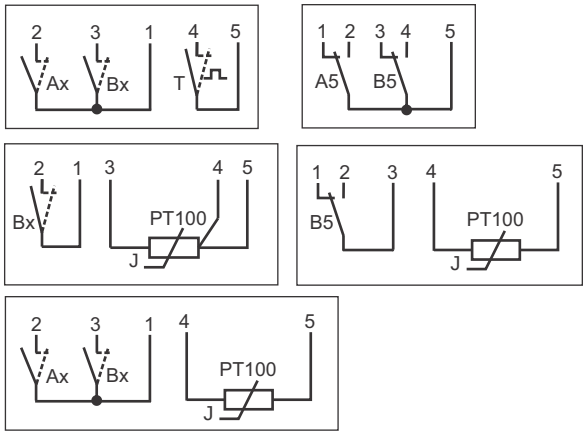
Terminal diagrams

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	oval flange 80x50mm, material makrolon
Mounting position:	vertical ± 10°
Seal:	material NBR
Sliding tube:	ø8mm material stainless steel, 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. contactc or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

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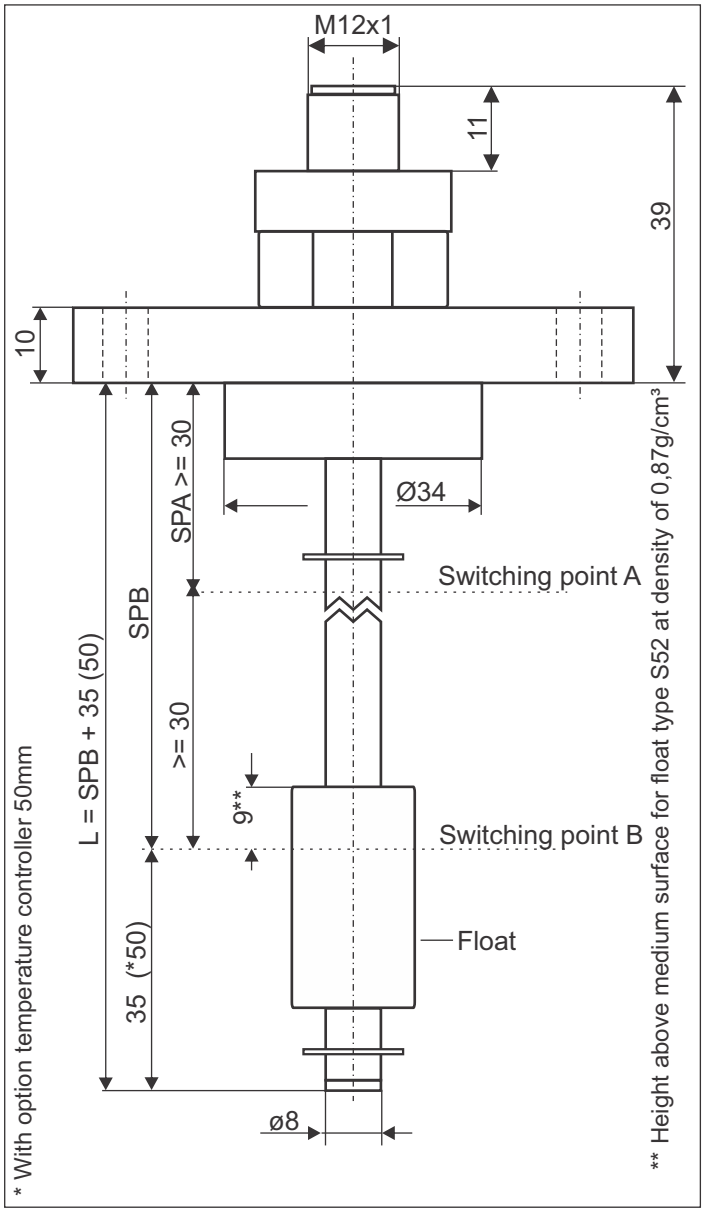
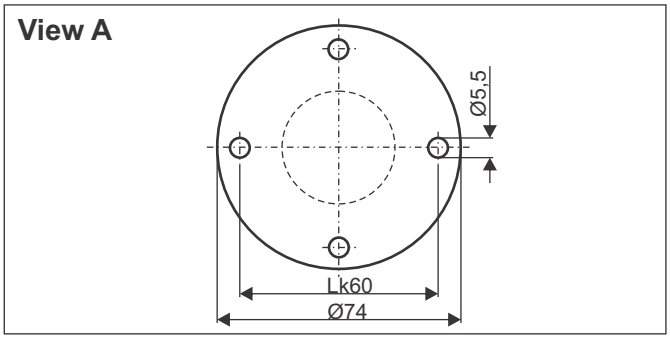
Subject to change
Dimension in mm

Data sheet
Mini float switch in stainless steel with plug connection M12
Type: M60...02.46.8 / M60...08.46.8
Mounting round flange

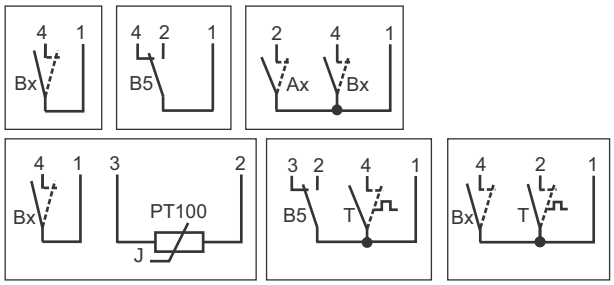




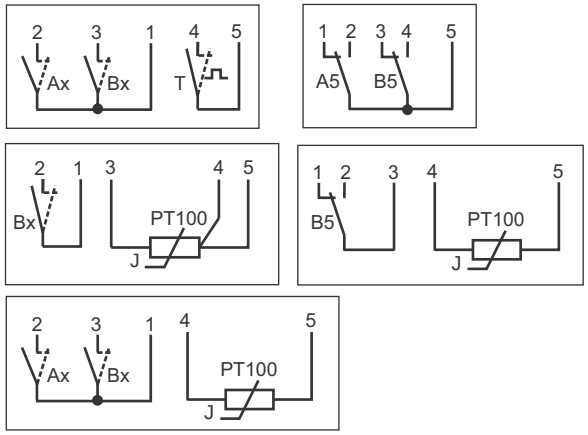
Terminal diagrams

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



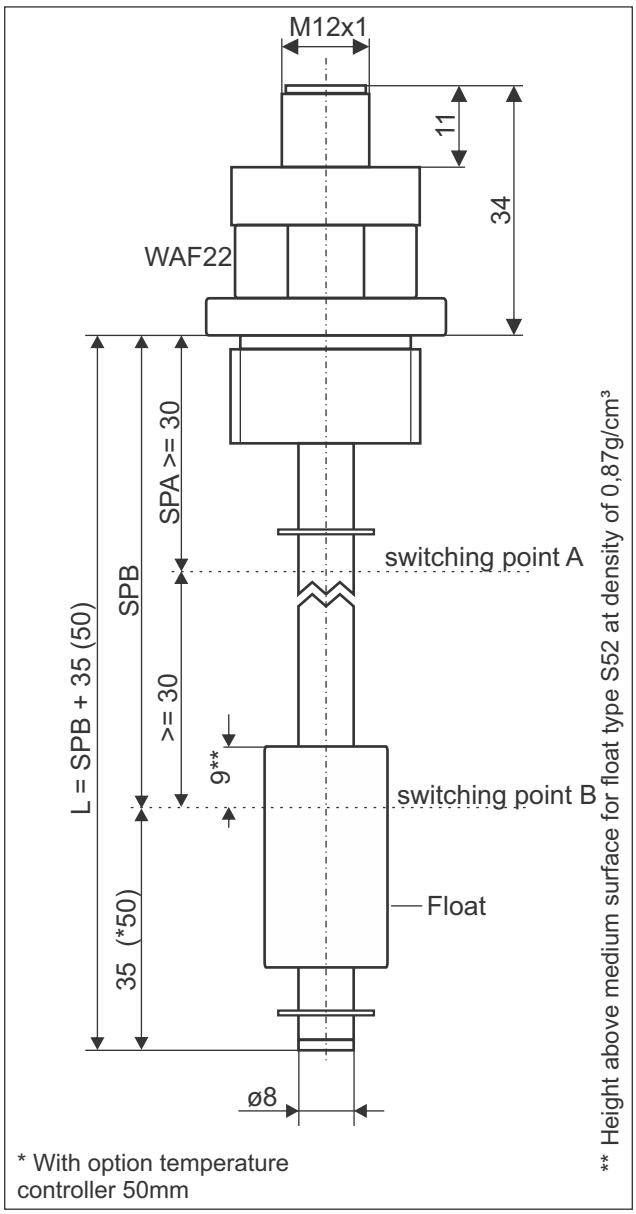
M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	round flange AD 74mm, LK 60mm, material aluminium
Mounting position:	vertical ± 10°
Sliding tube:	ø8mm material stainless steel, 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. contactc or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

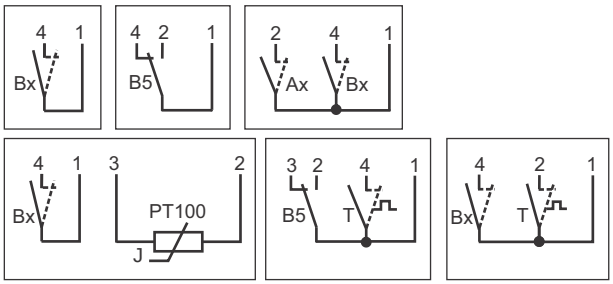
Data sheet
Mini float switch in stainless steel with plug connection M12
Type: M60...02.13.8 / M60...08.13.8
Mounting 3/4”



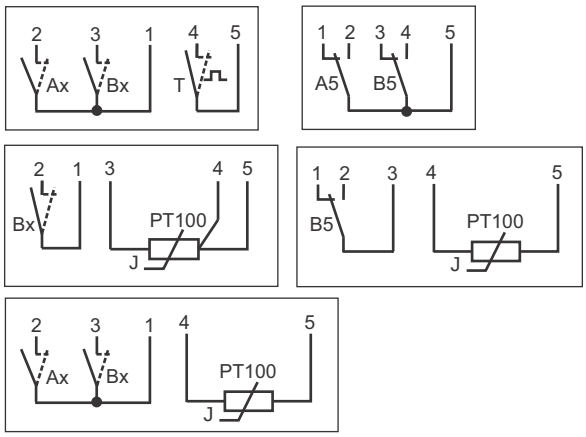
Terminal diagram

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



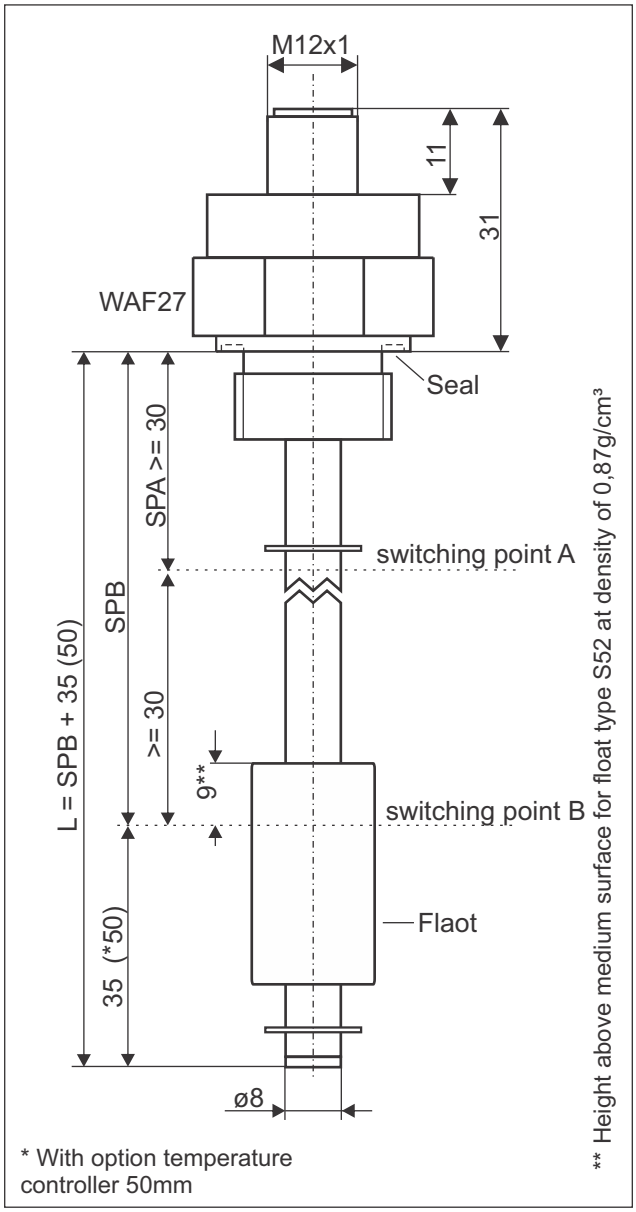
M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	thread 3/4”, material aluminium
Mounting position:	vertical ± 10°
Sliding tube:	ø8mm material stainless steel, 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. contactc or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

Data sheet
Mini float switch in stainless steel with plug connection M12
Typ: M60...02.01.8 / M60...08.01.8
Mounting M20x1,5

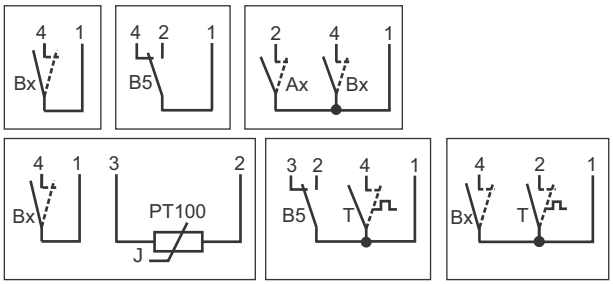


* With option temperature controller 50mm

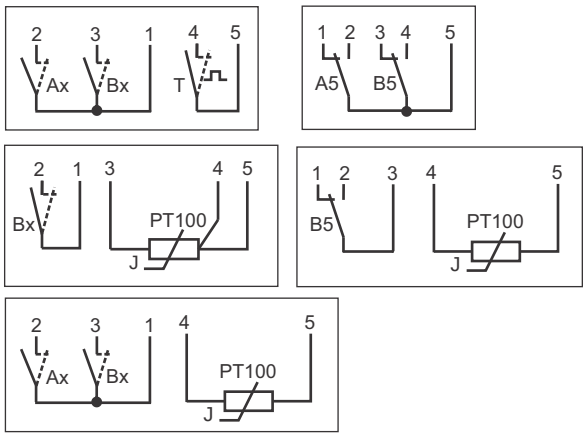
Terminal diagrams

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



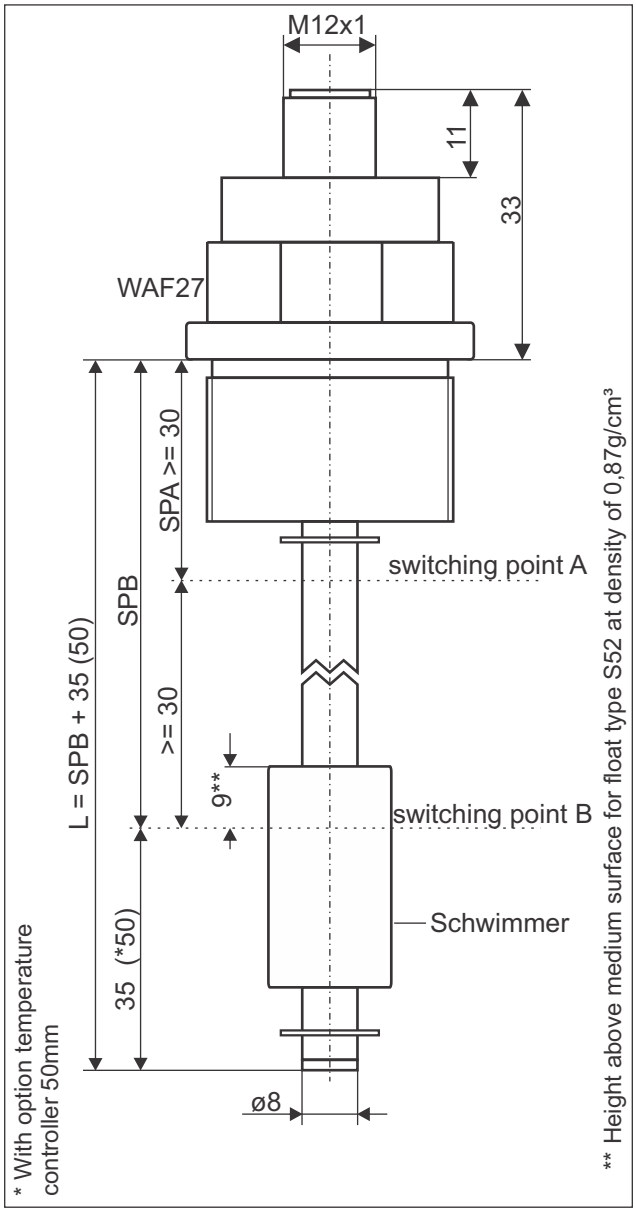
M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	thread M20x1,5mm, material aluminium
Mounting position:	vertical ± 10°
Seal:	profile seal, material NBR
Sliding tube:	ø8mm material stainless steel, length and material acc. to customer specification
Float:	ø17,8x32mm, material NBR, type S52
Reed contact:	max. 2x reed contacts n.o. contact / n.c. Contact or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	ooptional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

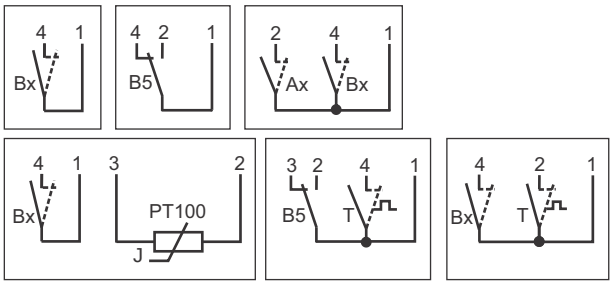
Data sheet
Mini float switch in stainless steel with plug connection M12
Typ: M60...02.22.8 / M60...08.22.8
Mounting 1”



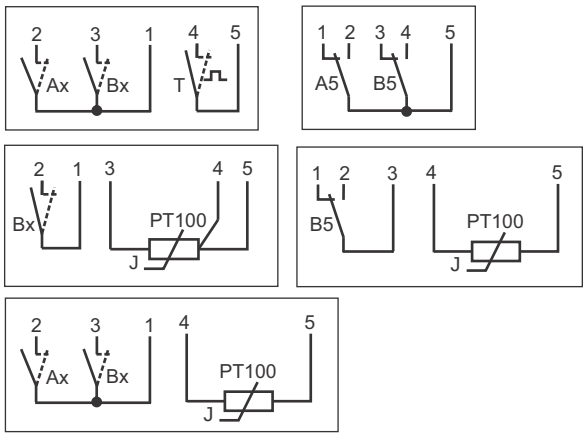
Terminal diagram

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



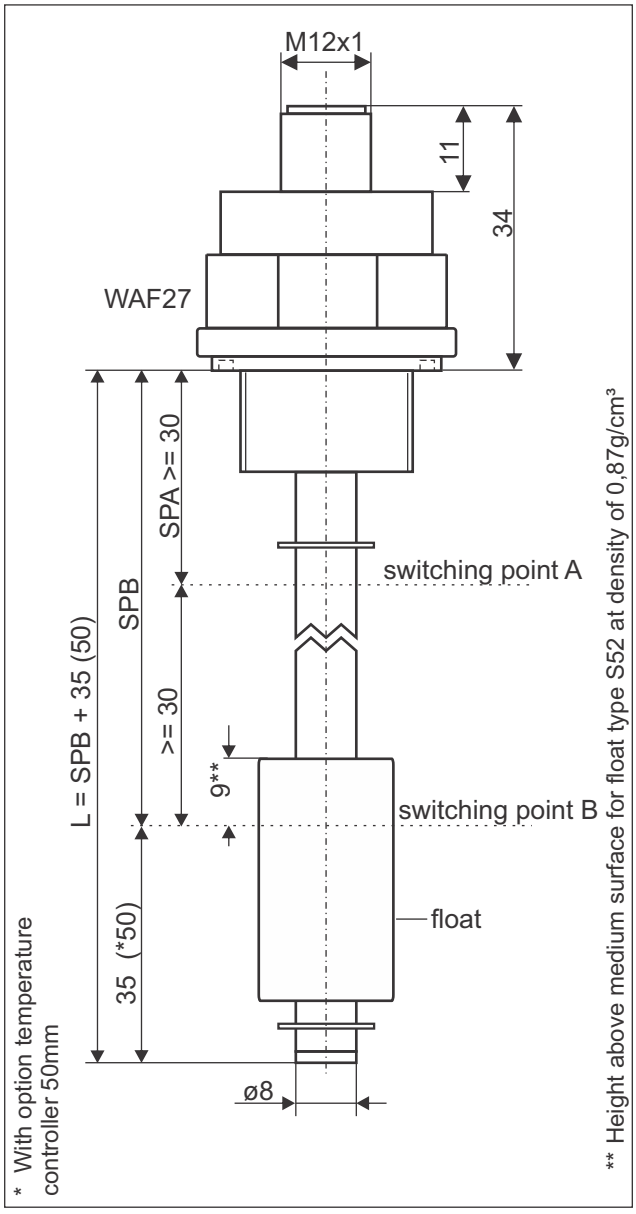
M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1 4-pole and 5-pole, material TPU
Mounting:	thread 1”, material aluminium
Mounting position:	vertical ± 10°
Sliding tube:	ø8mm material stainless steel, length and material acct. to customer specification
Float:	ø17,8x32mm, material NBR, type S52
Reed contact:	max. 2x reed contacts n.o., contact/ n.c. contact or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

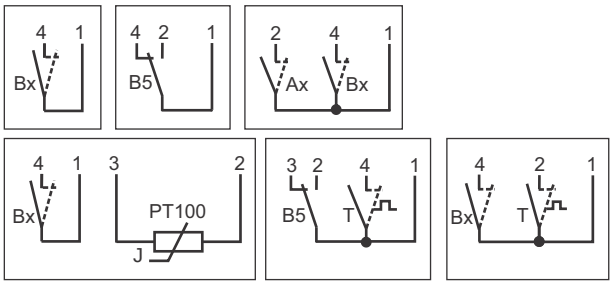
Data sheet
Mini float switch in stainless steel with plug connection M12
Typ: M60...02.33.8 / M60...08.33.8
Mounting M24x1,5



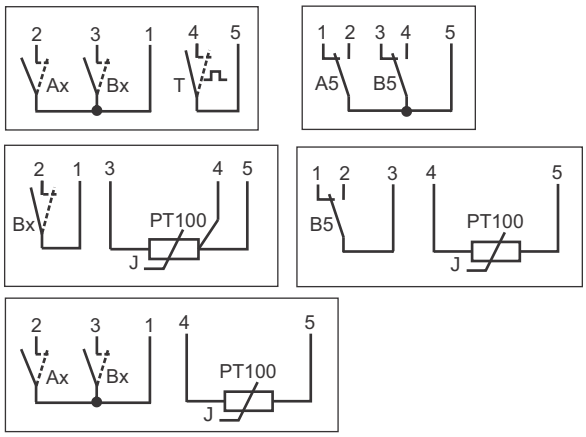
Terminal diagrams

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	thread M24x1,5mm, material aluminium
Mounting position:	vertical ± 10°
Seal:	profile seal, material NBR
Sliding tube:	ø8mm material stainless steel, length and material acc. to customer specification
Float:	ø17,8x32mm, material NBR, type S52
Reed contact:	max. 2x reed contact n.o., contacts/ n.c. contact or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

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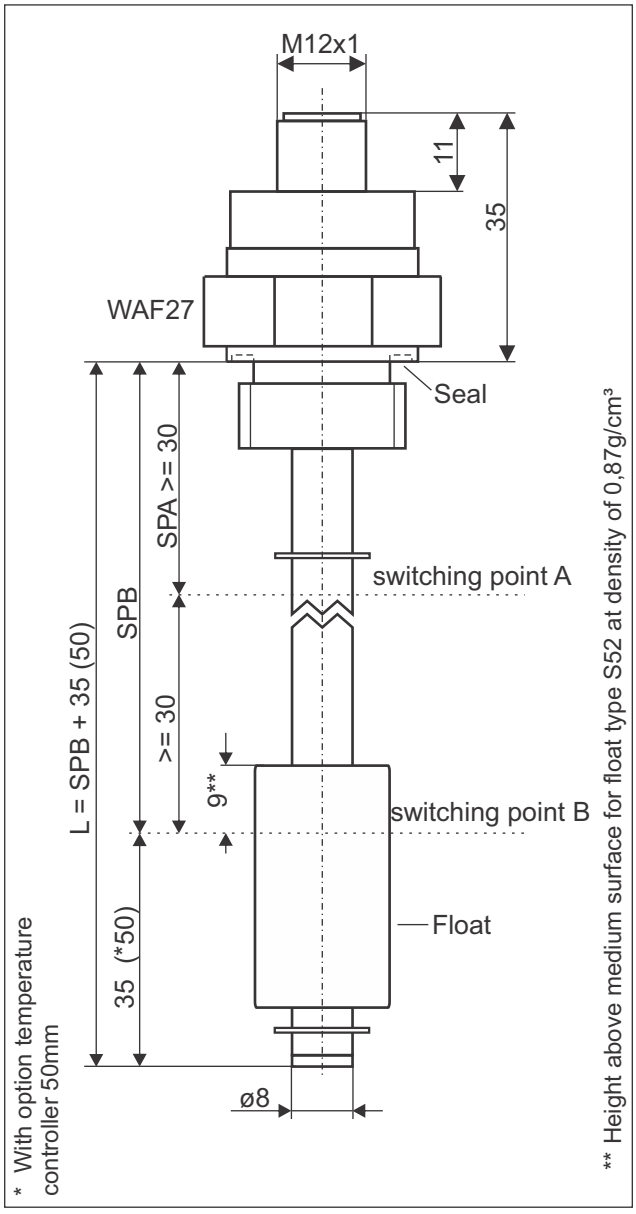
Subject to change
Dimension in mm

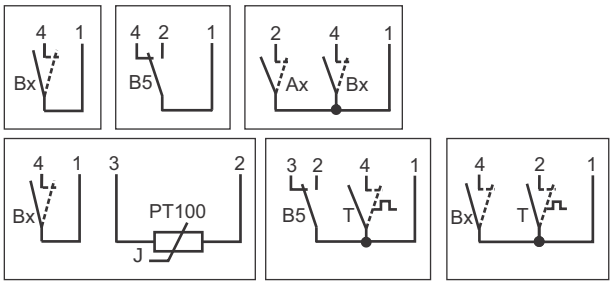
Data sheet
Mini float switch in stainless steel with plug connection M12
Type: M60...02.24.8 / M60...08.24.8
Mounting M22x1,5



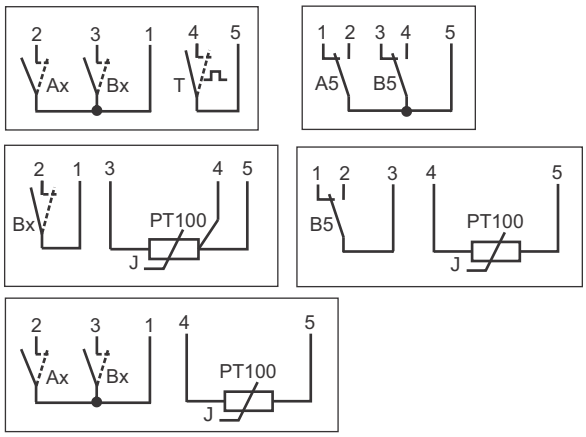
Terminal diagrams

M12 4Pol (02)

Comment: Contacts possible either as n.o. contact or n.c. contact



M12 5Pol (08)



Technical data:

Connection:	plug-type connector M12x1, 4-pole and 5-pole, material TPU
Mounting:	thread M22x1,5mm, material aluminium
Mounting position:	vertical ± 10°
Seal:	profile seal, material NBR
Sliding tube:	ø8mm material stainless steel, length and material acc. to customer specification
Float:	ø17,8x32mm, material NBR, type S52
Reed contact:	max. 2x reed contact n.o. contact / n.c. contact or 2x change over contact, function bistable
Switching voltage:	max. 24VDC
Switching current:	150mA
Temperature switching:	optional, see performance data
Temperature sensor:	optional, see performance data
Pressure:	max. 1 bar
Operating temperature:	-20°C to100°C in medium, -15°C to 70°C above mounting
Protection rating:	IP 65

Data sheet
Mini float switch in stainless steel with plug connection M12
Optional Temperaturschalter, PT100 und 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