



Illustration shows examples

Technical data Reed contact:

Switching voltage at	
male Z3/Z6A:	max. 250 VUC
male Z5/Z8:	max. 30 VDC
Switching current:	max. 0,5 A
Switching power:	max. 30 W/VA

For inductive and capacitive loads, suppressor circuits shall be provided for.
(Diode, RC element, varistor)

Technical data thermostat B 30 VDC:

Switching voltage:	max. 30 VDC
Switching current:	max. 2 A
Tolerance of rated temperature:	±4 K
Switching hysteresis:	approx. 2 K
Temperature	
changing speed:	max. 1 K/min

Technical data thermostat C 250 VUC:

Switching voltage:	max. 250 VUC
Switching current:	max. 2 A
Tolerance of rated temperature:	±5 K
Switching hysteresis:	2 ... 10 K
Temperature	
changing speed:	max. 1 K/min

Level switch KFA-A

- max. three bistable switching points for level monitoring
- One switching point for temperature monitoring
- Simple installation
- Small size
- PUR float

Application:

Monitoring of levels and temperatures of liquids.

Function - level switch:

When the level decreases and the float reaches the switching points, the contacts will be actuated magnetically. The switching positions of the contacts are maintained until the float moves over them again by virtue of the raising level.

Example NC contact:

Level	
under the switching point:	Contact open
over the switching point:	Contact closed

Function - thermostat:

A bimetal disc which can be influenced by temperature is switching as soon as the adjusted switching temperature is reached. Thermostates with various switching temperatures and voltages are available (see order designation).

Technical data general:

Operating pressure:	max. 1 bar
Ambient temperature:	-20 ... +80 °C
Medium temperature:	0 ... 90 °C
Medium density:	>0,7 g/cm ³
Mounting position:	vertical ±10°

Material	
Tube and thermostat:	Brass
Float:	Polyurethane foam
Flange:	Brass
Sealing:	FPM
Protection class:	DIN EN 60529 IP65
Male:	See order designation
Weight at L=300:	0,16 kg

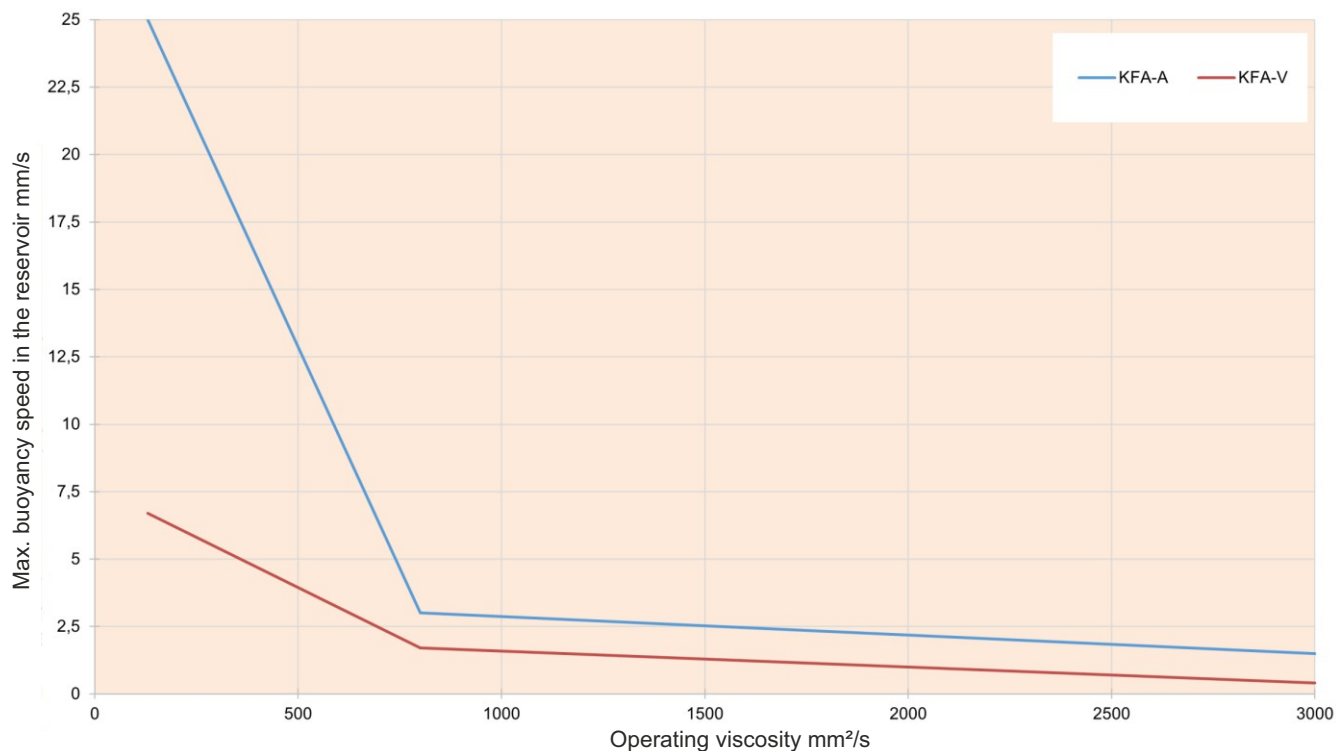
This float is suited for mineral oils and water. If it is to be used with other media, user should check the float's compatibility, if necessary.

For operation in inherently safe electric systems see data sheet A0905.

Caution: Sufficiently strong external magnetic fields can influence the switching states of the level switch.



Max. buoyancy speed of the medium



- Subject to modifications -

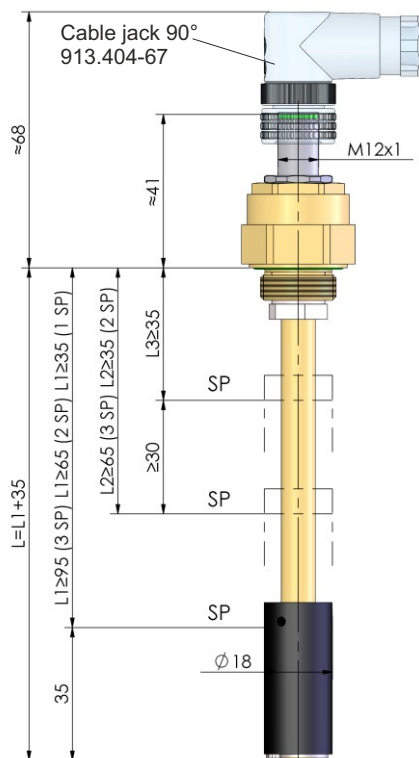
When filling reservoirs, the buoyancy speed must not be exceeded. The float must not be submerged below the surface of the medium, otherwise the level switch will not function properly.



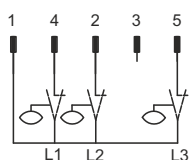
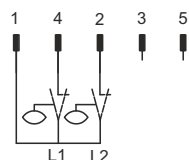
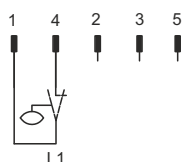
Version 30 VDC

Male **Z5N**,
M12x1, 5-pin

1 ... 3 Level switching contacts



SP = Switch point



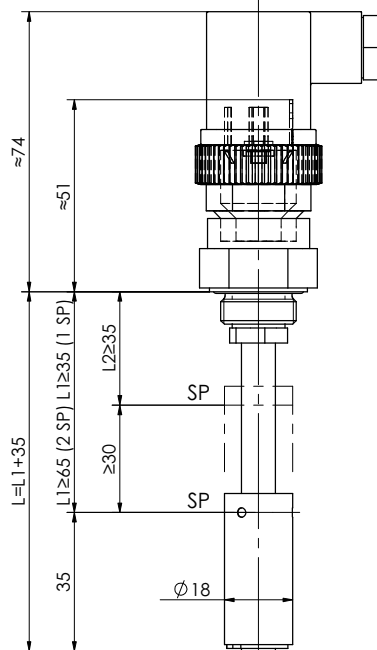
L1 = NC or NO contact
L2 = NC or NO contact
L3 = NC or NO contact
Pin adapter 913.405-85
for retrofitting, on request.

Level switch

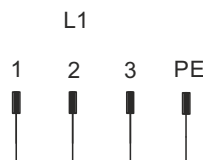
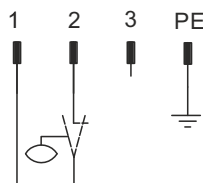
Version 250 VUC

Male **Z3N**, DIN EN 175301-803,
shape A, 3-pin + PE

1 ... 2 Level switching contacts



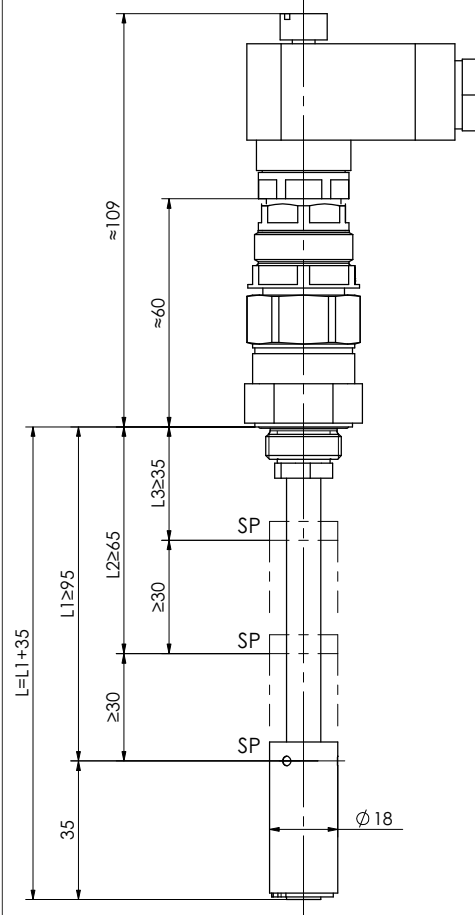
SP = Switch point



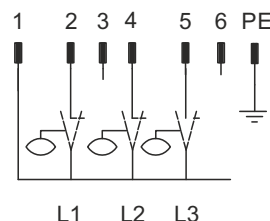
L1 = NC or NO contact
L2 = NC or NO contact

Male **Z6AN**, DIN EN 175201-804,
6-pin + PE

3 Level switching contacts



SP = Switch point



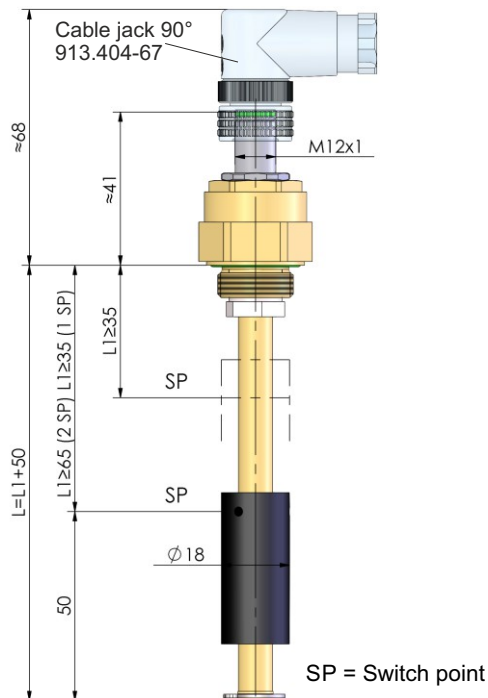
L1 = NC or NO contact
L2 = NC or NO contact
L3 = NC or NO contact



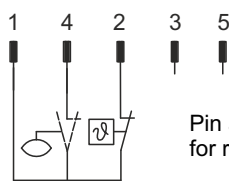
Level - temperature switch
Version 30 VDC

Male Z5N
M12x1, 5-pin

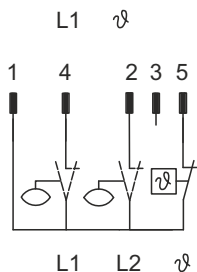
1 ... 2 Level switching contacts
1 Temperature switching contact



SP = Switch point



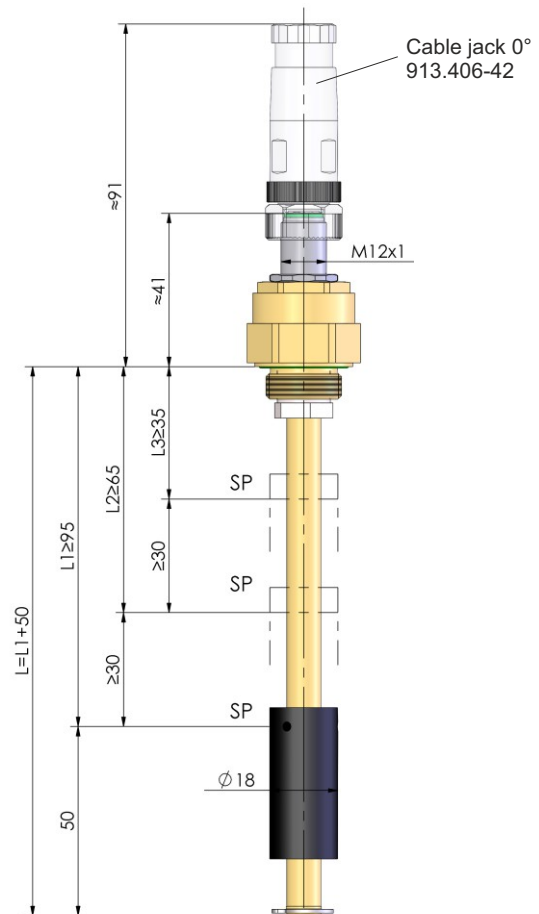
Pin adapter 913.405-85
for retrofitting on request.



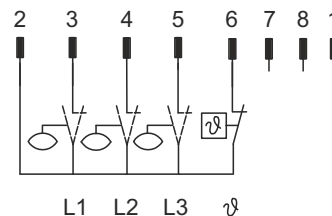
L1 = NC or NO contact
L2 = NC or NO contact
☉ = Temperature NC contact

Male Z8N
M12x1, 8-pin

3 Level switching contacts
1 Temperature switching contact



SP = Switch point



L1 = NC or NO contact
L2 = NC or NO contact
L3 = NC or NO contact
☉ = Temperature NC contact (option)

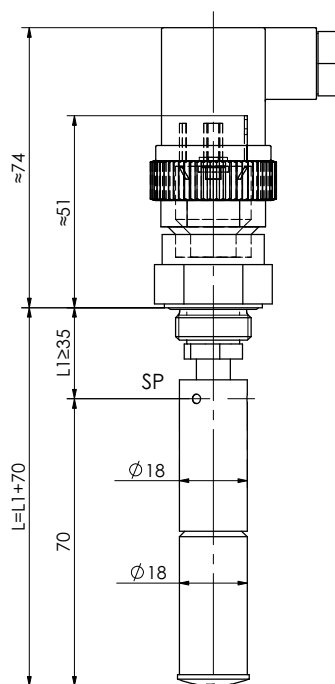
- Subject to modifications -



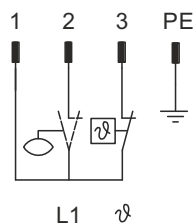
Level - temperature switch Version 250 VUC

Male Z3N
DIN EN 175301-803, shape A
3-pin + PE

1 Level switching contact
1 Temperature switching contact



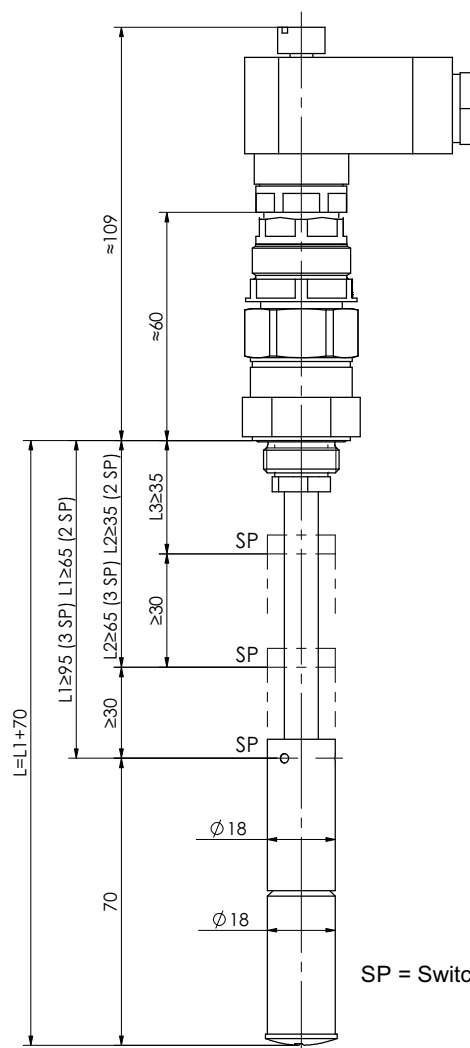
SP = Switch point



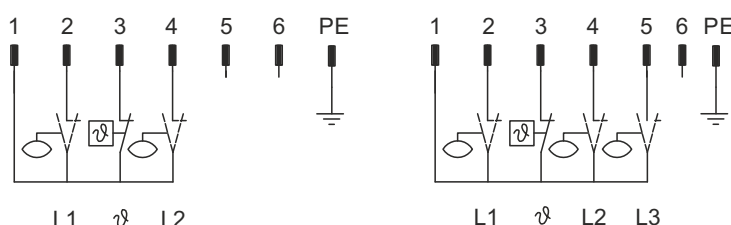
L1 = NC or NO contact
☉ = Temperature NC contact

Male Z6AN
DIN EN 175201-804,
6-pin + PE

2 ... 3 Level switching contacts
1 Temperature switching contact



SP = Switch point

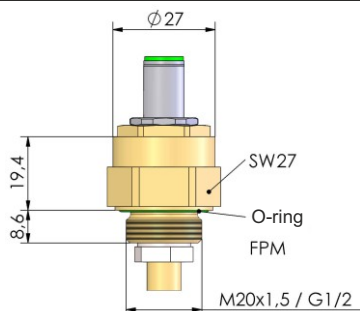


L1 = NC or NO contact
L2 = NC or NO contact
L3 = NC or NO contact
☉ = Temperature NC contact (option)

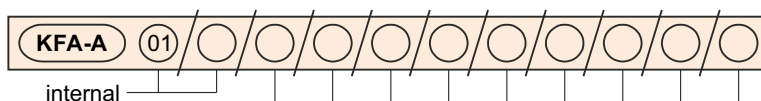
- Subject to modifications -



Flange



Order designation:



Flange	Switching functions				male without / with cable jack	Length		
	L1 Switch point bottom level decreasing	L2 Switch point middle / top level decreasing	L3 Switch point top level decreasing	Thermostat		* L1 mm	* L2 mm	* L3 mm
M20x1,5 (F) G 1/2 (G)	NC contact (O) NO contact (S) without (N)	NC contact (O) NO contact (S) without (N)	NC contact (O) NO contact (S) without (N)	NC contact 30 V 56 °C (056B) NC contact 30 V 63 °C (063B) NC contact 30 V 70 °C (070B) NC contact 30 V 80 °C (080B) without (N)	up to 3 switch functions 30 V , M12x1, 5-pin without cable jack (Z5N) with cable jack (Z5)	specify when specify when ordering, please		
	NC contact (O) NO contact (S)	NC contact (O) NO contact (S)	NC contact (O) NO contact (S)	NC contact 30 V 56 °C (056B) NC contact 30 V 63 °C (063B) NC contact 30 V 70 °C (070B) NC contact 30 V 80 °C (080B)	4 switch functions 30 V M12x1, 8-pin without cable jack (Z8N) with cable jack (Z8)			
	NC contact (O) NO contact (S) without (N)	NC contact (O) NO contact (S) without (N)	without (N)	NC contact 250 V 56 °C (056C) NC contact 250 V 63 °C (063C) NC contact 250 V 70 °C (070C) NC contact 250 V 80 °C (080C) without (N)	up to 2 switch functions 250 V 3-pin + PE without cable jack (Z3N) with cable jack (Z3)	* if there is no switching point existing: L1 ≤ L - The switching dimensions refer to a density of 1 g/cm³		
	NC contact (O) NO contact (S)	NC contact (O) NO contact (S)	NC contact (O) NO contact (S) without (N)	NC contact 250 V 56 °C (056C) NC contact 250 V 63 °C (063C) NC contact 250 V 70 °C (070C) NC contact 250 V 80 °C (080C) without (N)	3 to 4 switch functions 250 V 6-pin + PE without cable jack (Z6AN) with cable jack (Z6A)			
Note: The male Z3/Z3N can only be selected for up to two switching functions, Z5N only for up to three switching functions, Z8N only for up to 4 switching functions and Z6A/Z6AN only for three or four switching functions.								

- Subject to modifications -



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