

level measurement

magnetic float switch SMS 280

features

- level switch on the float principle with fixed cable output with magnetic transmission, different connection cables possible
- different process connection threads
- robust design
- rod length is free to choose after consultation of the mechanical possibilities
- 1 or 2 switching points selectable
- simple evaluation by reed contact
- optionally with temperature switch

technical data

- material connection cable
- material rod
- material float ball
- float limit
- max. operating pressure
- protection class
- temperature range
- distance switching point bottom
- distance between 2 switching points
- version with 2 switching points
- accuracy switching point
- switching capacity float contact:
- temperature switch mounting location
- switching capacity temperature switch
- temperature range temperature switch
- electrical connection

depending on version, see order code
 stainless steel 1.4404 (316L) and 1.4401 (316)
 depending on version, see order code
 adjusting ring, stainless steel 1.4404 (316L) and 1.4401 (316)
 depending on version, see order code
 IP68
 depending on version, see order code
 min. 50mm from below
 min. 50mm (for 2 switching points)
 2 float balls
 +/- 3mm
standard version
 max. AC/DC 175V; 10VA/10W; 0,5A
high temperature version
 (with float ball SZE30 and SKE75 possible)
 max. AC/DC 30V; 3VA/3W; 0,2A
 protection tube below
 max AC 250V, 2A resp.. 24VDC, 3A
 +45°C...+160°C in 5°C steps
 fixed cable connection

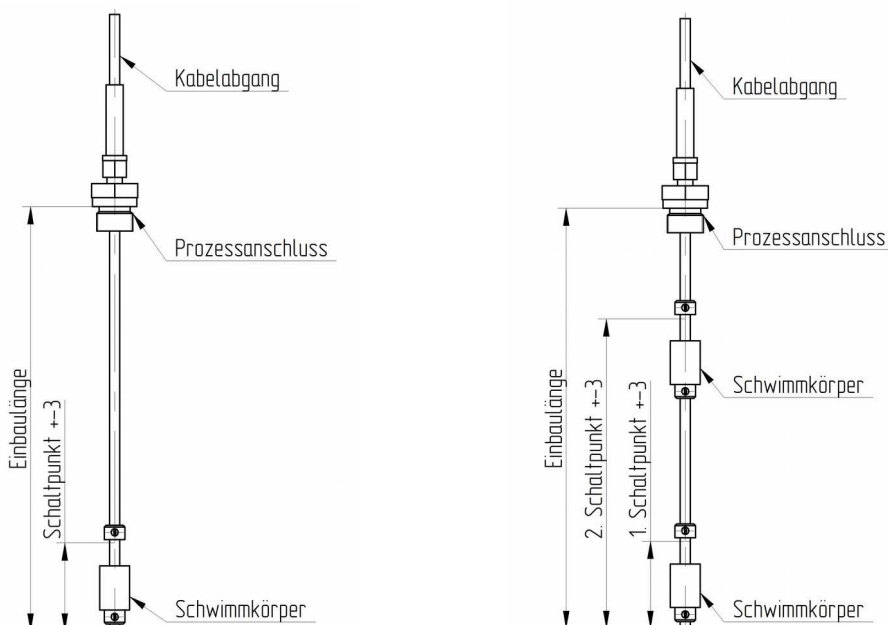


SMS 280-...

typical areas of application

- level detection in containers
- dry run protection
- empty / full message
- Simple, robust point level detection

technical drawing (example)



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order code SMS 280...

electrical connection

-00PVC	cable material PVC (temperature range standard up to 85°C), specify cable length (for example 02 = 2m)
-00PUR	cable material PUR (temperature range standard up to 105°C), specify cable length (for example 02 = 2m)
-00S	cable material silicon (temperature range standard up to 180°C), specify cable length (for example 02 = 2m)
-00T	cable material teflon (temperature range standard up to 260°C), specify cable length (for example 02 = 2m)

process connection

-KVS1/2T	clamp screw fittings G1/2", slidable with teflon ring
-KVS1/2E	clamp screw fittings G1/2", with stainless steel cutting ring
-FG1	fixed thread G1"
-FG1/2	fixed thread G1/2"

sensor length

-XXX	sensor length (XXX=length in mm), minimum length 100mm, 5mm steps
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switching point 1

-XXX	switching point (XXX=distance from bottom in mm), minimum distance from the bottom 50mm, 5mm steps
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electrical version switching point 1

-NC	version opener
-NO	version closer
-W	version changer (not possible with 2 switching points)
-NOT	version closer (high temperature range up to 180°C, only with float ball SZE30 or SKE75)

switching point 2 (optional) Minimum distance to switching point 1: 50mm

-XXX	switching point (XXX=distance from bottom in mm), 5mm steps
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electrical version switching point 2 (only if switching point 2 is selected)

-NC	version opener
-NO	version closer
-W	version changer (not possible with 2 switching points)
-NOT	version closer (high temperature version up to 180°C, only with float ball SZE30 or SKE75)

version float ball

-SZE30	float ball cylindrical design material stainless steel 1.4404, diameter 30mm temperature range: -10°C...+180°C, max pressure: 2 bar, for sealing 0,8g/cm ³
-SKE75	float ball spherical design material stainless steel 1.4401, diameter 75mm temperature range: -10°C...+180°C, max pressure: 2 bar, for sealing 0,7g/cm ³
-SZPP16	float ball cylindrical design material PP, diameter 16,5mm temperature range: -10°C...+80°C, max pressure: 1 bar, for sealing 0,85g/cm ³

temperature switch (optional) only switching point 1, NC or NO

-TXX	switch point temperature (XX specification in °C) temperature range +45°C...+160°C in 5°C steps
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option electrical linking of switching point and temperature switch (optional, only with switching point 1, NC o. NO)

-RT	temperature switch connected in series with switch point 1
-GT	temperature switch designed separately
-CT	temperature switch and switching point with common reference contact
-RS	2 switching points connected in series