

level measurement

magnetic float switch SMS 430

features

- level switch on the float principle with plug connection with magnetic transmission, different plugs 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



SMS 430-...

technical data

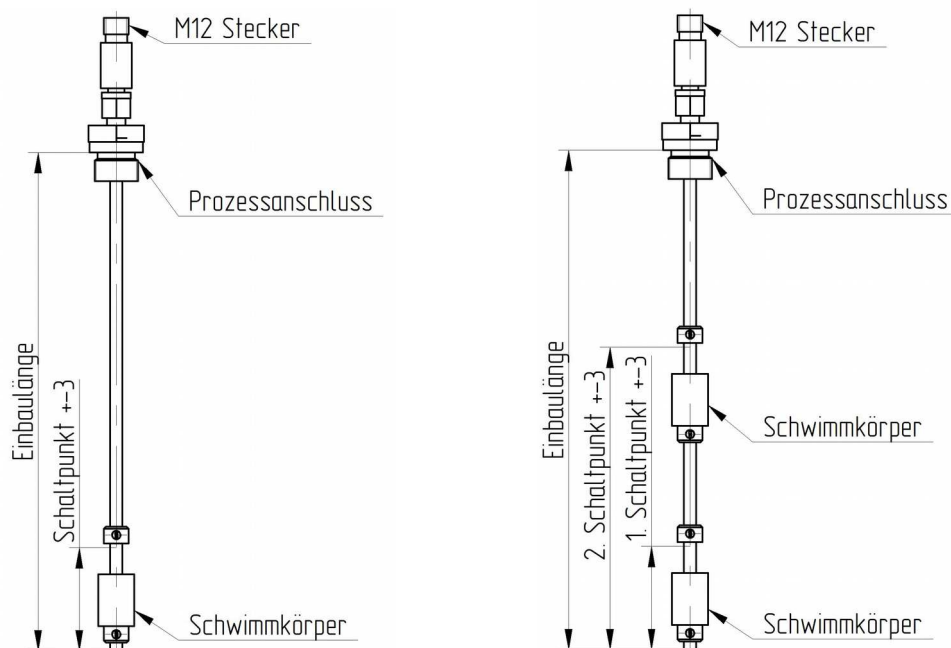
- material connection cable
- material rod
- material float ball
- float limit
- max. operating pressure
- protection class
- temperature range
- distance switching point bottom
- distance between 2 switching points
- version with 2 switching points
- accuracy switching point
- switching capacity float 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
M12 plug IP68, ISO4400 plug IP65
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
plug connection, see order code

typical areas of application

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

technical drawing (example)



level measurement

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electrical connection

-9 M12 plug, protection class IP68
-10 ISO4400 plug, protection class IP65

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
-XX other on request

sensor length

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

switching point 1

-XXX Schaltpunkt (XXX=Abstand von unten in mm), Mindestabstand von unten 50mm, 5mm Schritte

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 version 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

electrical version switching point 2 (only if switching point 2 is selected)

-NC version opener
-NO version closer
-W version changer (not possible for 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/cm³
-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/cm³
-SZPP16 float ball cylindrical design material PP, diameter 16,5mm
temperature range: -10°C...+80°C, max pressure: 1 bar, for sealing 0,85g/cm³

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

-TXX switching point temperature (XX specification in °C) temperature range +45°C...+160°C in 5°C steps

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

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