Gas Density Switch (GDS)
Model 851.52.063 MS

Applications

- Gas density monitoring of closed SF_6 tanks
- For medium voltage switchgear
- For the use in ring main units

Special Features

- Density switch with reference chamber and gas compensation. Without influence of altitude and atmospheric pressure change; no recalibration necessary

Gas Density Switch, Model 851.52.063 MS

Description

Working ranges
Permissible filling pressure (tank pressure) at +20 °C:
5 bar $_{abs.}$

Permissible temperature ranges
Ambient: -20 … +60 °C (gas phase)
Storage: -40 … +80 °C

Alarm contacts / Contact rating
1 or 2 micro switches to make or break, switching points according to customer's requirement and secured
Contact rating: 5 A / 250 V AC, 50 Hz

Switching distance
Between 2 contacts: ≥ 50 mbar
Switching hysteresis: typically 50 mbar

Switching accuracy of reference contact
at 20° C: ≤ ±40 m bar
at -20 … +60 °C: ≤ ±60 mbar

High-voltage test
2 kV, 50 Hz, 1s (wiring versus case)

Electrical connection
Standard: open-ended cable, length 0.3 m

Process connection
Stainless steel, bottom, G $^1/_4$ B (male), 14 mm flats

Pressure element
Capsule spring, stainless steel, welded
Gas tight: leakage rate ≤ $1 \cdot 10^{-8}$ mbar · l / s
Test method: spectrometry of helium mass

Reference chamber
The reference chamber pressure is defined by the lowest switching point

Ingress protection
IP 68 per EN 60 529 / IEC 529

Case (Reference chamber)
Stainless steel, welded with measurement system
Filling: SF_6
Gas tight: leakage rate ≤ $1 \cdot 10^{-8}$ mbar · l / s
Test method: spectrometry of helium mass

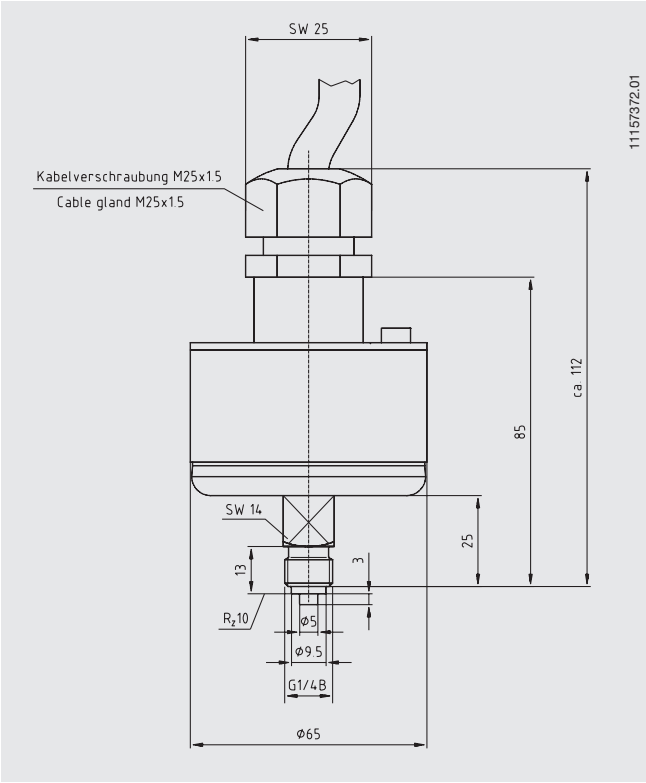
Weight
Appox. 0.4 kg

Options

- Other process connection
- Compensation of gas mixtures

Dimensions in mm

Standard version



Ordering information
Model / Alarm contacts switching point, function and working direction / Options

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