

Technical specifications

Characteristics

Purpose:	Measurement of gas density
Principle:	Reference gas measurement
Overpressure:	max. 13 bar
Vibrations:	4 g (20...80 Hz), min. difference 5 kPa from switch point
Ambient temp.:	-40...+80°C
Protection:	IP 67
Switching differential typ.	<15 kPa
max. difference from the lowest to the highest switch point:	130kPa
Switching differential typ.	<20 kPa
max. difference from the lowest to the highest switch point:	180kPa

Storage

Storage temp.:	-40 ... +80°C
Humidity:	max. 70% relative
only with original packing in clean and dustfree rooms	

Mechanical data

Material	
Measurement system:	
Sensor:	1.4435, 1.4404, 1.4571 (AISI316L, AISI316)
Filling:	Gas
Housing:	AISI10Mg
Screwed cable gland:	brass nickel plated
Weight:	~ 800...1000 g

Type plate (Identification)

Important for all inquiries please indicate:

Instrument type:	Type: XXXX.XX.XXXX.XX
Instrument number:	S/N:XXXXXX.X.XX.XX-XXX

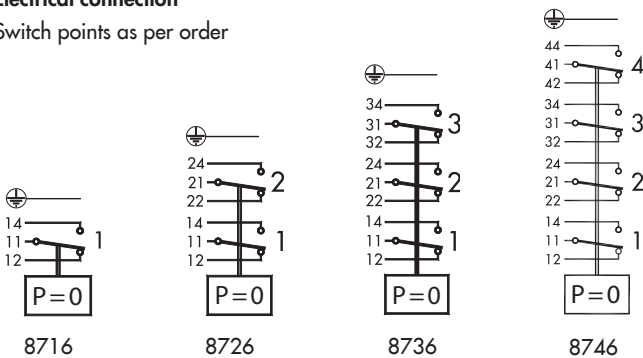
Electrical data of switch

Rating

Resistive Load (Inductive Load)	AC	250 V	10 (1.5) A
Standard switch 20:	DC	250 V	0.1 (0.05) A
		220 V	0.25 (0.2) A
		110 V	0.5 (0.3) A
		24 V	2 (1) A

Electrical connection

Switch points as per order



 Connected with all electrically conductive elements of the Density Monitor

When checking the switch points of Density Monitors, it is important to use suitable test instrumentation.

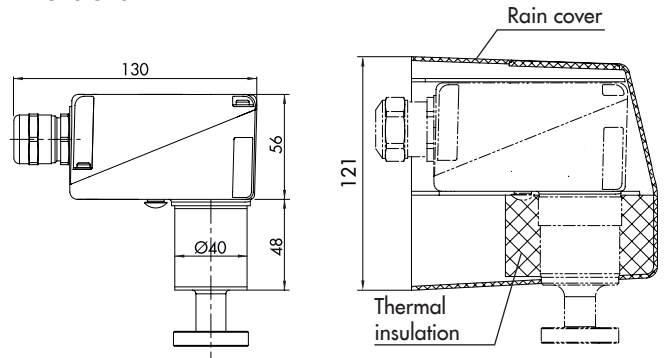
Electrical testing instruments must fulfill the following requirements:

- a) Minimum voltage to test micro switches 24VDC, min. 0.1A (max. values according to product instruction)
- b) Alternative test voltages according to electrical specification of switches stated on product data are also permissible

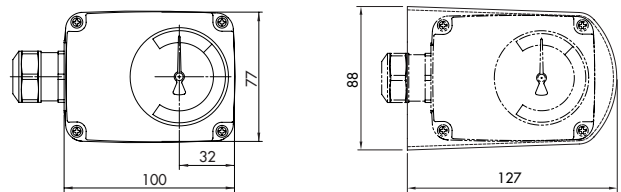
Note:

Low voltage contact testers are not suitable for checking the switch points of Density Monitors and should not be used!

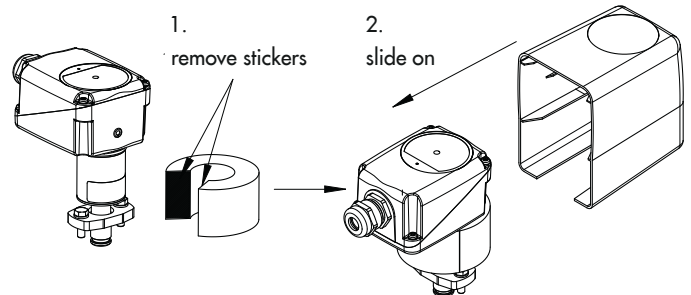
Dimensions



Thermal insulation: Accessory 06
Rain cover: Accessory 46



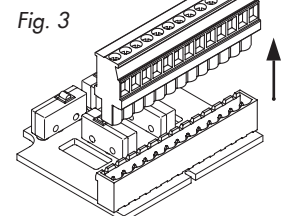
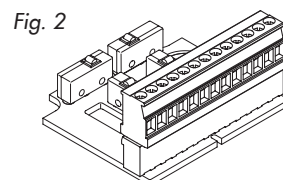
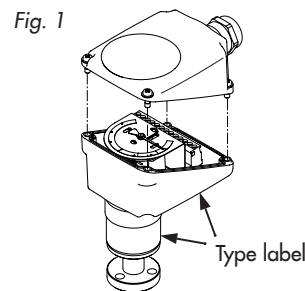
Installation Thermal insulation and Rain cover



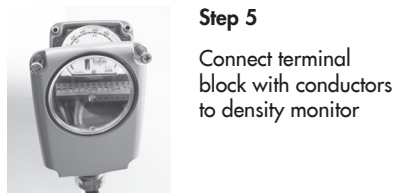
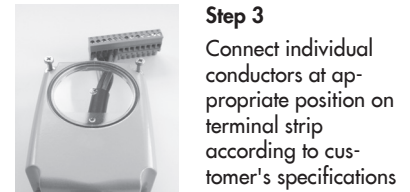
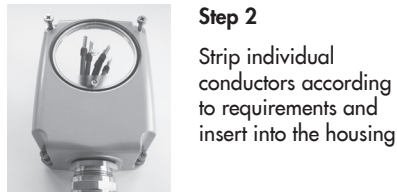
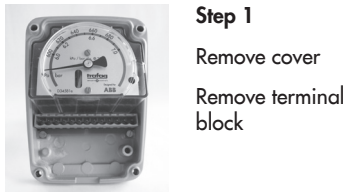
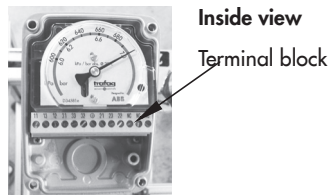
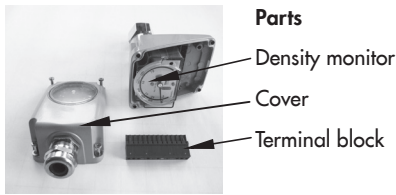
Disassembly/Assembly

When disassembling proceed as follows:

- Turn off control voltage.
- Do not release control cable, cable gland.
- Remove cover by loosening screws (Fig. 1).
- Release slide-in contacts. A screwdriver is not necessary (Fig. 2/3)



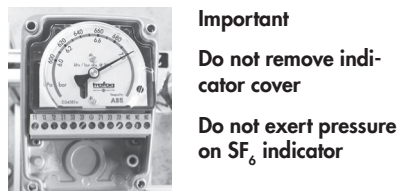
Electrical connection of density monitor



Valve opener



Indicator cover



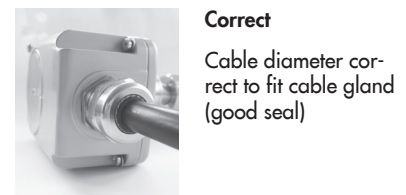
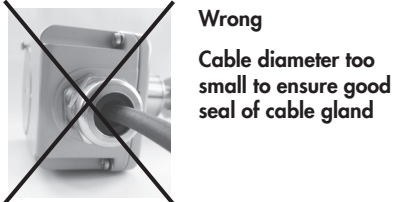
Housing O-Ring



Cable gland



Correct cable diameter



Mechanical connection of density monitor (might vary depending on gas connection)

