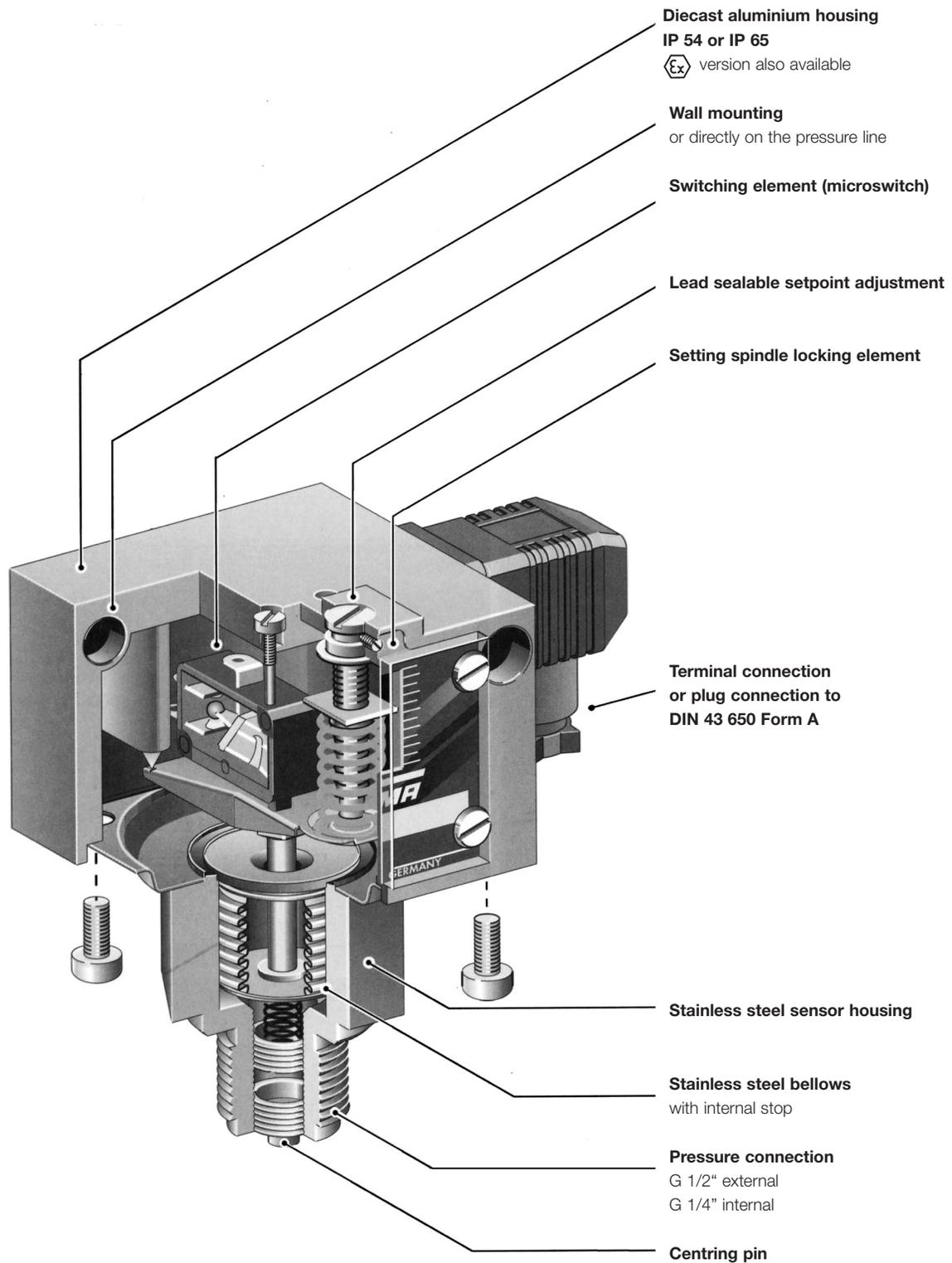


Mechanical pressure switches

Technical features / Advantages





DGM 310 A

DGM series

Pressure monitors for fuel gases

Technical data

Pressure connection

External thread G 1/2 to DIN 16 288 and internal thread G 1/4 to ISO 228 Part 1 (permissible up to 4 bar).

Switching device

Seawater-resistant diecast aluminium
GD Al Si 12.

Degree of protection

IP 54 for vertical installation position.
IP 65 (for EEx-d version)

Pressure sensor materials

See Product Summary

Ambient temperature

-25 to +60°C.
-15 to +60°C (for EEx-d versions). At ambient temperatures below 0°C, ensure that condensation cannot occur in the sensor or in the switching device.

Maximum working pressure

See Product Summary

Mounting

Either directly on the pipe or with two 4 mm ø screws on the wall surface.

Mounting position

Vertically upright and horizontal.
EEx-d version only vertical.

Setting

Continuously adjustable via the setting spindle with a screwdriver. The set switching pressure is visible in the scale window.

Sealing P2

On request (can be fitted later).

Switching differentials

Largely independent of the set switching pressure. Not adjustable. For values see Product Summary.

Switching capacity	250 VAC		250 VDC	
	(ohm)	(ind)	(ohm)	(ohm)
Normal	8 A	5 A	0.3 A	8 A
EEx-d	3 A	2 A	0.03 A	3 A

Switching devices in EEx-i version with gold-contacts.
Max. switching capacity: 24 VDC 100 mA.

Pressure measuring connection

Care must be taken to ensure that a pressure measuring connection is available in a suitable place on the gas appliance.

Component tested for

Testing basis

Function

Fuel gases according to DVGW Worksheet G 260

DIN 3398, Part 3, Issue 11/82, DIN EN 1854

Pressure monitor, pressure limiter

Pressure monitor (with internal or external interlock)

Direction of action

For maximum and minimum

pressure monitoring

NG-4346 AP 1011 CE-0085 AQ 1088

DVGW Reg. No.

CE Ident. No.

DVGW



(according to Gas Appliance Directive 90/396/EEC)

Product Summary

Type	Setting range	Switching differential (mean values)	Max. working pressure	Materials in contact with medium	Dimensioned drawing
DGM 306 A	15...60 mbar	6 mbar	0.8 bar	CU + Ms	
DGM 310 A	20...100 mbar	7 mbar	0.8 bar	CU + Ms	1 + 13
DGM 325 A	40...250 mbar	10 mbar	0.8 bar	CU + Ms	
DGM 06 A	100...600 mbar	25 mbar	2 bar	CU + Ms	1 + 14
DGM 1 A	0.2...1.6 bar	40 mbar	3 bar	CU + Ms	
DGM 506	15...60 mbar	8 mbar	5 bar	1.4104	
DGM 516	40...160 mbar	12 mbar	5 bar	1.4104	1 + 12
DGM 525	100...250 mbar	20 mbar	5 bar	1.4104	

For other pressure ranges see type series DWR

Ex -versions

Degree of protection EEx de IIC T6, housing 700

Ex-DGM 506	15...60 mbar	10 mbar	5 bar	1.4104	
Ex-DGM 516	40...160 mbar	12 mbar	5 bar	1.4104	3 + 12
Ex-DGM 525	100...250 mbar	20 mbar	5 bar	1.4104	

For other pressure ranges see type series DWR

EEx-i version (intrinsically safe)

Housing 500

DGM 306-513	15...60 mbar	6 mbar	0.8 bar	CU + Ms	
DGM 310-513	20...100 mbar	7 mbar	0.8 bar	CU + Ms	2 + 13
DGM 325-513	40...250 mbar	10 mbar	0.8 bar	CU + Ms	
DGM 06-513	100...600 mbar	25 mbar	2 bar	CU + Ms	2 + 14
DGM 1-513	0.2...1.6 bar	40 mbar	3 bar	CU + Ms	
DGM 506-513	15...60 mbar	10 mbar	5 bar	1.4104	
DGM 516-513	40...160 mbar	12 mbar	5 bar	1.4104	2 + 12
DGM 525-513	100...250 mbar	20 mbar	5 bar	1.4104	

Calibration

The **DGM** series is calibrated for rising pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at rising pressure. The reset point is lower by the amount of the switching differential. (See also page 30, 2. Calibration at upper switching point).

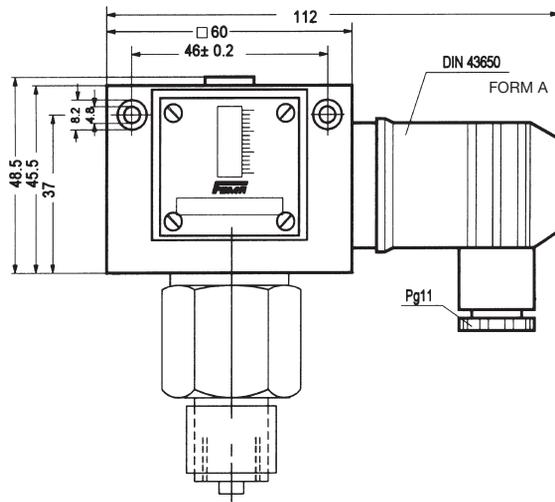
For other pressure ranges see type series DWR



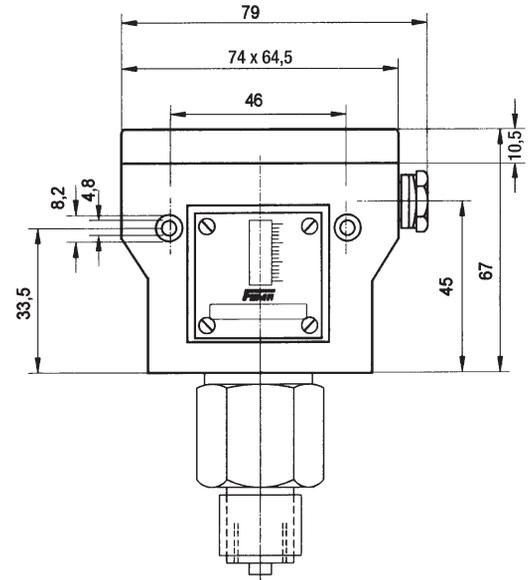
Degree of protection:
IP 54/65

Dimensioned drawings of switch housings

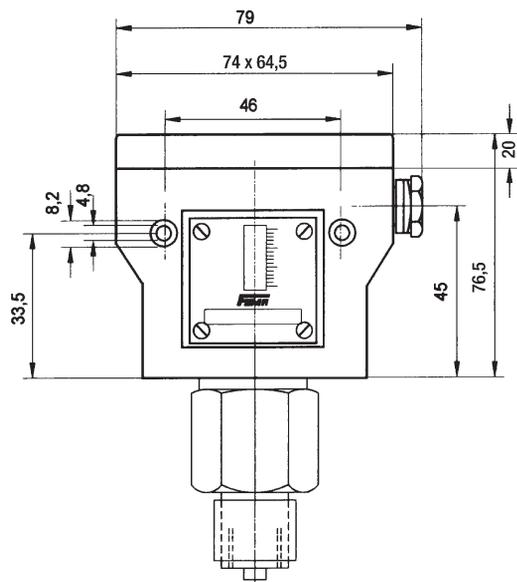
1 Housing 200 (plug connection)



2 Housing 300 and 500 (terminal connection)

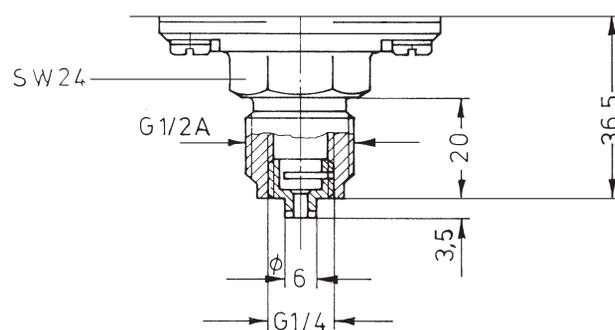


3 Housing 700 (Ex)

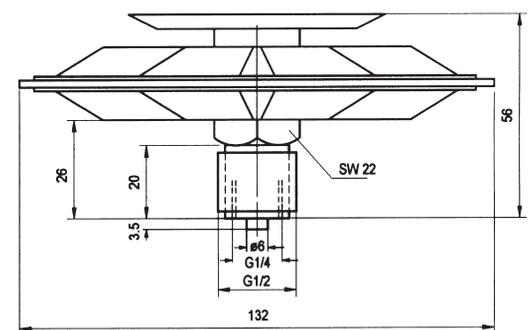


Dimensioned drawings of pressure sensors

10

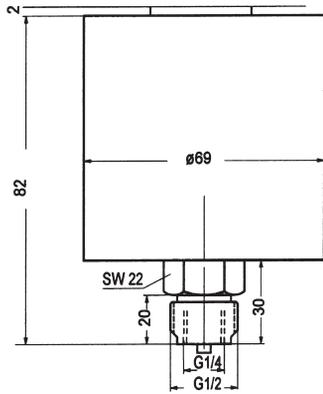


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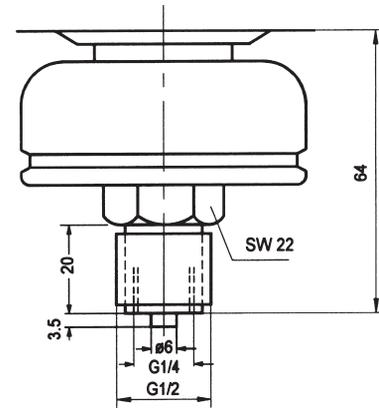


Dimensioned drawings of pressure sensors

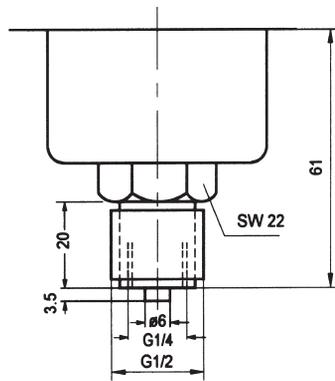
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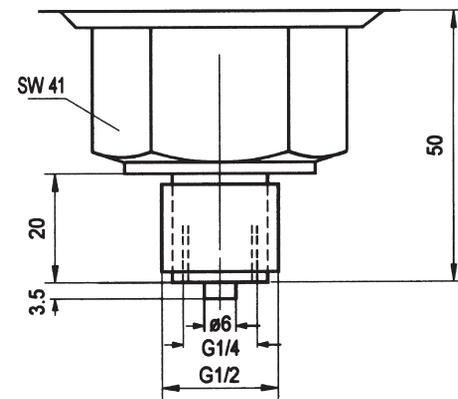
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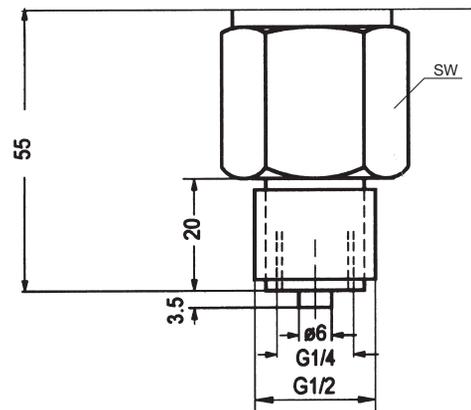
14



15

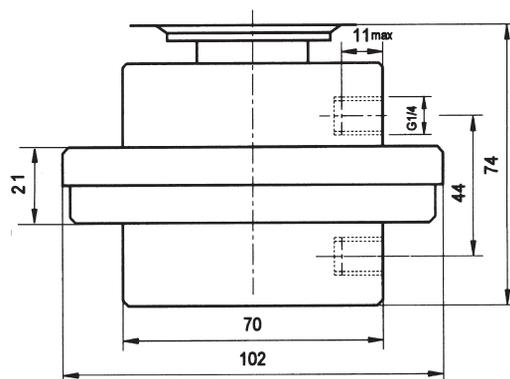


16-19



Dimensioned drawing	SW
16	22
17	24
18	30
19	32

20



21

