

Pressure gauges with one or two switch contacts

The models S4634, S4365 and S4636 are bourdon

tube pressure gauges with electrical limit contacts.

They are suitable for the control of processes, for

example the filling level in tanks or hydraulic circuits.

The floating contacts work independent of a power

supply. Only one single device and one connection

are needed for the switching operation and for

pressure monitoring. The adjustment of the switch point can be carried out in pressureless state. As a result, this avoids complex adjustments in multiple

several pressure cycles as required for the most pressure switches. Additionally the gauges fulfil the

These contact gauges can be matched exactly to

application due to various options (e.g. process

connection, dial, accuracy class and many more).

requirements

of

each

requirements of EN 837-1.

customer-specific

the

They have one or two switching outputs.

Nominal sizes NS 40, 50 and 63

Central connection on the back, radial connection at the bottom

Description



Features

- Various process connections, radial bottom or centre back mount
- o High switching reliability and long service life
- o Magnetic spring contact and gold-plated contact lug
- o Design per EN 837-1
- o Pressure indication over 270 angular degrees
- Adjustable contacts betw een 10% and 90% of the scale range

Display ranges

-1 ... 0 up to 0 ... 400 bar

Applications

- o Indicating pressure level in tanks
- Leakage monitoring
- o General industrial applications

Model: S4634, S4635, S4636

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Model	S4634	S4635	S4636		
Nominal size	40	50	63		
Configuration	positive overpressure, negative	eoverpressure, positive and n	egative overpressure		
Process connection					
Standard	centre backmount				
	G1/8 B	G1	1/4 B		
Optional	radial bottom				
	others on request				
Measuring principle	bourdon tube				
Ranges					
Standard	02.5 bar to 0400 bar				
Optional	-10 bar to -130 bar				
Accuracyclass					
Standard	2.5				
Optional	1.6 (one contact)				
Pressure limitations					
Constant load	3/4 x full scale value				
Alternatingload	2/3 x full scale value				
Short-time load	full scale value				
Materials					
Housing	plastics (NG 40, 50), stainless s	teel (NG 40, 50 63)			
Window	plastics				
Dial	NG 40, 50: a	luminum, white			
		tainless steel, white			
Pointer	plastics, black				
Wetted parts	brass (measuring element, pro	cess connections), others on r	request		
Switching outputs					
Number					
Standard	1		1		
Optional	-		2 ¹		
Switching function	NO or NC				
Switching element	magnet snap action contact, po	otential free			
Repeatability	one contact:	max. ± 2.5% of full scale			
	two contacts:	max. ± 4 % of full scale			
Adjustment					
Standard	on-site				
Optional	factory adjusted				
Power rating					
Switching voltage	4.5 24 VDC/VAC				
Switching current	5 100 mA				
Contact load	max. 2.4 W				
Temperature ranges	1				
Medium	max. +60° C				
Ambient	-20+60 °C				
Temperature effect ²	max. ±0.4 %/10 K of the span				
Electrical connection	cable output				
Ingress protection	IP41 acc. EN 60529 / IEC 529				
	$10^{-5}mbar \frac{l}{c}$ (helium leaktest)				
Leakage rate	s mour (nonun reaktest)				
Accessories (optional)	orifice brass 0.3 mm, 0.5 mm				

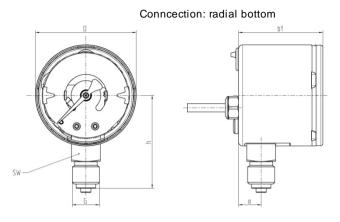
¹ Min. difference between 2 switch points: 15% of full scale ² When the temperature of the measuring system deviates from the reference temperature (+20°C)

Electrical connection Cable output, standard length 1 m

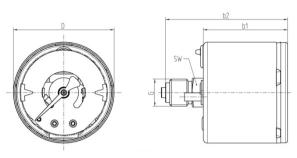
One contact		Two contacts				
red:	U _{B+}	red:	U _{B+}			
black	SP1	orange:	SP1			
		black	SP2			

Dimensions (in mm)

1) Housing: plastics, black



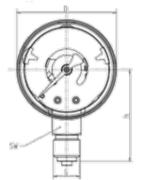
Connection: centre back mount

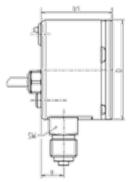


Model	Number of contacts	Position of connection	D	h ± 1	b ₁ ± 0.5	b₂ ± 1	a ± 0.5	Weight in kg	SW	G
S4634	one contact	radial bottom centre backmount	40 40	36 -	34 32.7	- 48.3	9.5 -	0.07 0.07	14 14	G1/8B G1/8B
S4635	one contact	radial bottom centre backmount	49 49	47 -	32 34	- 54	10 -	0.10 0.10	14 14	G1/4B G1/4B

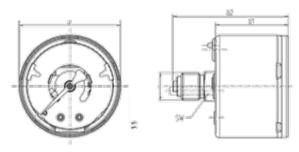
2) Housing: stainless steel

Connection: radial bottom





Connection: centre backmount



Model	Number of contacts	Position of connection	D	h ± 1	b ₁ ± 0.5	b ₂ ± 1	a ± 0.5	Weight in kg	sw	G
S4634	one contact	radial bottom centre backmount	40 40	36 -	34.6 30.6	- 48	10.7 -	0.10 0.10	14 14	G1/8B G1/8B
S4635	one contact	radial bottom centre backmount	49 49	45 -	35 35	- 55.4	11 -	0.12 0.12	14 14	G1/4B G1/4B
	two contacts	radial bottom centre backmount	49 49	45 -	41 41	- 49.4	11 -	0.12 0.12	14 14	G1/4B G1/4B
S4636	one contact	radial bottom centre backmount	61.9 61.9	53.5 -	35.1 35.1	- 55.1	11.4 -	0.14 0.14	14 14	G1/4B G1/4B
	two contacts	radial bottom centre backmount	61.9 61.9	53.5 -	41.1 41.1	- 61.1	11.4 -	0.14 0.14	14 14	G1/4B G1/4B

Subject to technical alternations

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