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0196/0197

Diaphragm/piston pressure switches 24 V

Stainless steel (1.4305) body

With changeover switch and gold contacts

Max. voltage 24V

Overpressure safe to 300 / 600 bar*)

F A1

0196 Diaphragm pressure switches

Adjustment range in bar	Tolerance in bar (RT)	Thread	Order number	p _{max.} in bar		
0.5 - 5	± 0.2		0196 457 03	003		
1 - 10	± 0.5	G 1/4"	0196 458 03	006	300* ⁾	
10 - 50	± 3.0	G 1/4	0196 459 03	009	3007	
10 - 100	± 3.0 - 5.0		0196 461 03	012		



With external thread

- Also available with switching point preset in our works.
- For ready-wired variants, see page 30 onwards.
- Other body materials and connection threads on request.

Accessories: see page 29

 For further technical data, see page 21.

0197 Piston pressure switches

Adjustment range in bar	Tolerance in bar (RT)	Thread	Thread Order number		
50 - 200	± 5.0	G 1/4"	0197 460 03	003	600*)

Order number

Add figure for diaphragm/seal material

NBR

Hydraulic / machine oil, turpentine, heating oil, air etc. = 1

EPDM

Hydrogen, acetylene, ozone, brake fluid etc. = 2

FKM

Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc. = 3

See page 21 for temperature ranges of diaphragm materials

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar is not exceeded.

Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

*) Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.



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Pressure Switches 27 A/F

Changeover contacts
With silver or gold contacts



- High-quality micro-switch for reliable switching
- Switching point easy to adjust ¹⁾
- Hysteresis can be set in our works 2)
- Self-cleaning contacts for a long working life (only 250 V versions)
- High overpressure safety
- Long working life under harsh operating conditions
- Connection plug or protective cap to protect against moisture and dirt, and thus easy replacement on site by service personnel
- Various thread connections available to suit your installation
- Ready-wired variants see pages 30-33
- A choice of zinc-plated steel or stainless steel as body material and a selection of diaphragm materials ensure high resistance to media



¹⁾ Switches we have preset are secured with sealing paint and have the switching pressure stamped on their body.

²⁾ Except for Series 0140/0141

TECHNICAL DATA



	,	Voltage		Ma	ax. curr	ent			Body material			
	24 V	42 V	250 V	50 mA	2 A	4 A	Gold contacts	Silver contacts	Adjustable hysteresis	Zinc-plated steel	Stainless steel 1.4305	DIN valve connector
0140*)			•		•			•		•		
0141*)			•		•			•		•		
0170		•				•		•	•	•		
0171		•				•		•	•	•		
0180*)			•			•		•	•	•		
0181*)			•			•		•	•	•		
0184*)			•			•		•	•	•		•
0185*)			•			•		•	•	•		•
0186*)			•			•		•	•		•	
0187*)			•			•		•	•		•	
0190	•			•			•		•	•		
0191	•			•			•		•	•		
0196	•			•			•		•		•	
0197	•			•			•		•		•	

^{*)} For further details of switching performance, see page 7

TECHNICAL DATA

CE MarkingDirectives of the
European Council

Machinery Directive, EMC Directive Low Voltage Directive ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

A EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalogue pages for the relevant switches carry the CE marking.



Accessories

For 27 A/F pressure switches



Protective cap

With two cable entries for 1.7 - 2.3 mm cable diameter Not suitable for voltages above 42 V!

Order No.: 1-1-70-621-007



Connection plug

Cable gland Pg9 (clamping range 6 - 9 mm)

Order No.: 1-1-80-652-002



Application matrix for accessories

Pressure-switch range	Protective cap 1-1-70-621-007	Connector plug 1-1-80-652-002	Connector plug with indicator light to DIN 43650
0140 / 0141			
0170 / 0171	•	•	
0180 / 0181	(up to max. 42V)	•	
0184 / 0185			(for 24V and 250V on request) see also page 25
0190 / 0191	•	•	
0186 / 0187	(up to max. 42V)	•	
0196 / 0197	•	•	