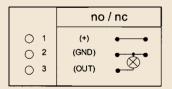
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before tightening 30 A/F

With internal thread

 Also available with switching point preset in our works.



 For further technical data, see page 49

0520

Electronic Pressure Switches

Zinc-plated steel body With ceramic sensor Overpressure safe to 20 / 200 / 500 bar *) Hysteresis programmable in our works from 2 ... 95% Supply voltage 18 ... 36 V DC

• Simple, mechanical adjustment of switching point

0520 Electronic Pressure Switch

Adjustment range in bar	Thread	p _{max.} in bar	Burst press. in bar	Normally open (no)) → :	Normally closed (I	nc) → ‡
0 – 10		20*)	30	0520 470 14	001	0520 471 14	001
0 – 100	G 1/4" internal	200*)	300	0520 472 14	001	0520 473 14	001
0 – 250	IIILEITIAI	500*)	600	0520 474 14	001	0520 475 14	001

Order number:

1
2

Temperature ranges of diaphragm materials

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

Temperature stability:	NBR	-30° +100°C
	EPDM	-30° +120°C
	FKM	-5° +120°C

Warning!

FKM

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.

Degree of protection IP 65

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.



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

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Electronic Pressure Monitoring



Electronic switches

- Precision pressure sensors for high accuracy (0.5 %)
- Electronic evaluation of switching point permits extremely small or very large hysteresis settings
- Switching point easily set by the user

Transmitters

- Medium-contact parts are all made of stainless steel for high resistance to chemicals
- No seals, and thus low leakage rate even with difficult gases
- Very small size for compact sub-assemblies
- High overpressure safety makes them suitable for use in hydraulic systems
- Flexible supply voltage, and current (4-20 mA) or voltage (10 V) output signal for your control electronics
- High accuracy (0.5 %) and reliability for secure process monitoring
- IP 67 with robust connections for reliable wiring
- Long working life even with high rates of pressure change







	0520	0570
Switching function:	Normally open / normally closed	Normally open / normally closed, programmable, time-delayed switching, zero-resetting, peak-value memory (within setting range), switching-pointcounter
Hysteresis:	295% programmable at our works (max. Tolerance ± 1.0%)	199% programmable using key-pad
Adjustment:	Switching point can be set on site by the customer using a screwdriver via a central setting potentiometer when operating voltage is applied	Programmable using membrane key-pad on front face
Outputs:	Transistor output (1.4 A / PNP)	2 Transistor outputs (each 1.4 A / PNP) 1 analogue output (420 mA)
Indication of circuit status:	_	By 2 LEDs (yellow)
Time-delayed switching:	_	Adjustable 03.0 s
Pressure display:	_	Current pressure can be shown in bar or PSI on 3-digit LED-display (red)
Materials:	Zinc-plated steel body (Fe/Zn12cC)	Medium-contact parts anodised aluminium, body is zinc die-casting
Access coding:	_	The switch can have a number code between 1 and 999
Supply voltage:	1836 V DC	1230 V DC
Degree of protection:	IP (65
Switching time:	< 4	ms
Temperature range:	-20°+80°C (FKI	M −5° +80°C)
Temperature compensation:	-20°+80°C, erro	or = 1.5% overall
Temperature drift:	± 0.2%	/ 10 K
Life expectancy:	5 x 10 ⁶	cycles
Vibration resistance:	10 g at 4 - 200	0 Hz sine-wave
Shock resistance:	294 m/s², 14 ms half-si	ne-wave to DIN 40046
EMC:	To EN 50081-1, EN 5	0081-2, EN 50082-2

Technical data for pressure transmitters

	0610	0620	
Output:	010 V	420 mA (2-wire)	
upply voltage:	12 30 VDC		
ccuracy:	± 0.5% at RT		
mperature range:	-40° +120°C	-40° +100°C	
mperature drift:	ca. ± 0.2% / 10 K		
echanical life expectancy:	10 ⁷ pulsations up to nominal pressure p _{nenn.}		
egree of protection:	IP 65 (IP 67 for M12x1 variant)		
erpressure safety:	2 x p _{nenn} .		
ursting pressure:	3 x pnenn.		
aterials:	Stainless steel - body: 1.4301 / diaphragm: 1.4542		
everse-polarity protection:	Installed		
ax. length of connection cable:	30 m		

CE Marking

Directives 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 electronic switches comply with the EMC Directive 89/336/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.



