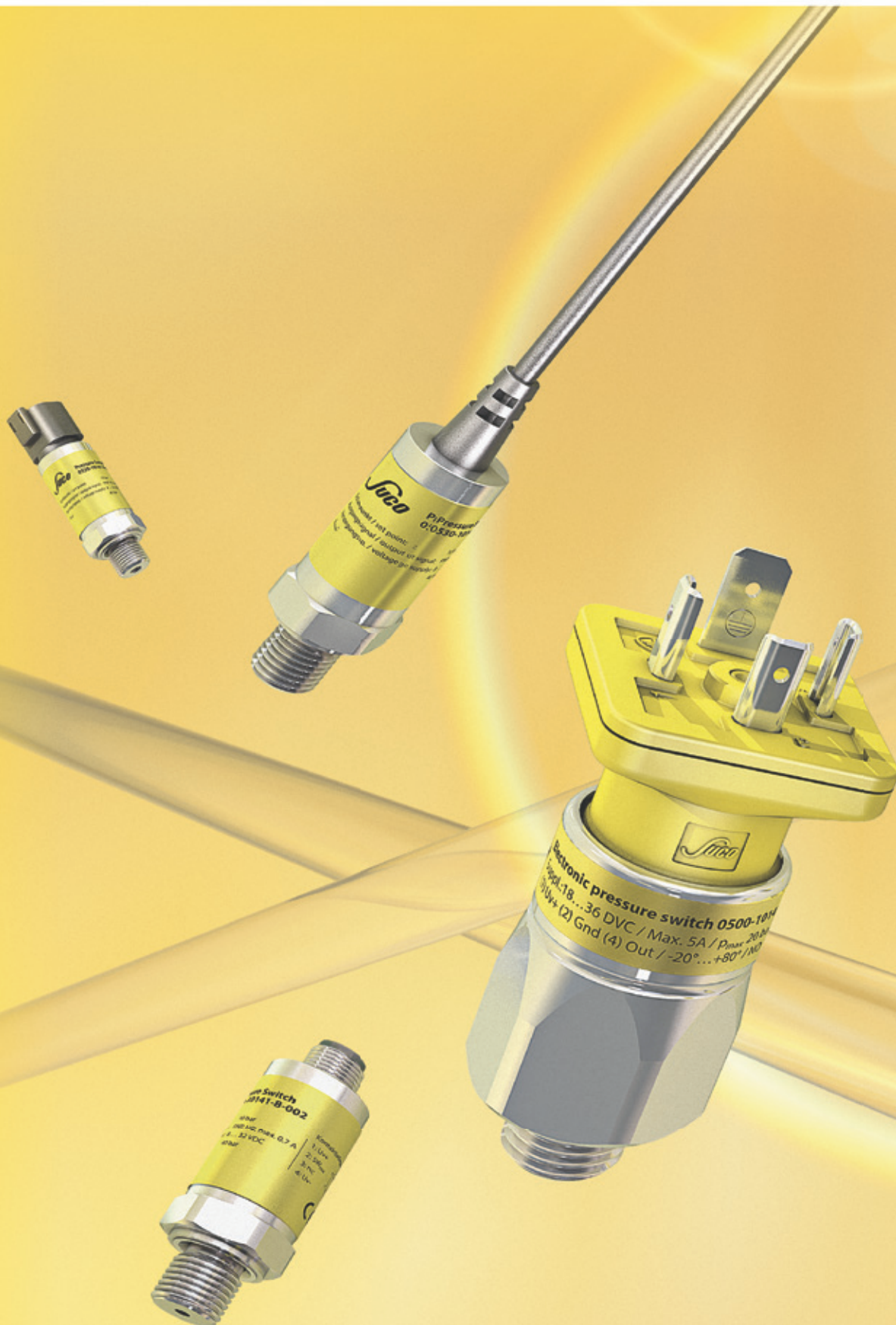


# E. Electronic Pressure Switches



# Menu-controlled electronic pressure switches

with display



- Menu-controlled, simple programming of switching functions
- 2 switching outputs and 1 analogue output
- Numerous programming functions, such as
  - switching time delay
  - zero point reset
  - peak value memory
  - switching point counter
- Current pressure value and switching states shown on 3-digit display
- Very high switching currents up to 1.4 A

# Menu-controlled electronic pressure switches

## Technical details

E.4  
menu-controlled

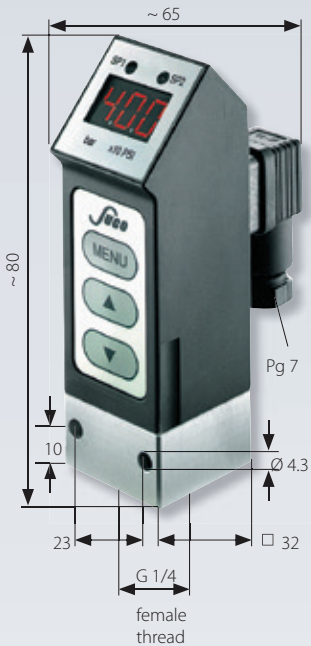
*Suco*

Type:	<b>0570 Electronic pressure switches</b>	
Switching function:	NC/NO, programmable, 2 switching points, switching time delay, zero point reset, peak value memory (within adjustment range), switching point counter	
Settings:	Programmable using keypad on front	
Outputs:	2 transistor outputs (each 1.4 A DC12 / PNP) 1 analogue output (4 – 20 mA)	
Supply voltage $U_b$ :	12 - 30 VDC	
Switching status display:	2 LEDs (yellow)	
Pressure display:	Current pressure displayable in bar or PSI on 3-digit LED (red)	
Life expectancy:	5,000,000 pulsations at rise rates to 1 bar/ms at $p_{nom}$	
Pressure rise rate:	$\leq 1$ bar/ms	
Switching time:	$< 4$ ms	
Switching time delay:	Adjustable between 0 and 3.0 s	
Hysteresis:	1 – 99 % FS, programmable from keypad	
Accuracy:	$\pm 0.5$ % (FS at room temperature)	
Display accuracy:	$\pm 0.5$ % (FS at room temperature) $\pm 2$ digits	
Temperature drift:	$\pm 0.2$ % / 10 °C	
Temperature range:	NBR, EPDM, FKM -20 °C ... +80 °C	
Compensated temperature range:	0 °C ... +70 °C (32 °F ... 158 °F), total error $\pm 2$ %	
Housing material:	die-casted zinc	
Wetted parts material	Housing:	zinc-plated steel
	Measuring cell:	Ceramic
	Seal material:	NBR, EPDM or FKM
Vibration resistance:	10 g at 5 ... 2000 Hz sine wave; DIN EN 60068-2-6	
Shock resistance:	294 m/s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27	
Protection class:	IP65	
EMV:	acc. to EN 50081-1, EN 50081-2, EN 50082-2	
Weight:	approx. 340 g	
Access pin:	The switch can be protected with a pin between 1 and 999	

E

# E.4

menu-controlled



## 0570

### Electronic pressure switch

- Anodised aluminium and die-casted zinc
- Ceramic measuring cell in thick-film technology
- Supply voltage 12 ... 30 VDC
- Overpressure protection to 20 / 150 / 600 bar1)
- Programmable using keypad on front
- Switching time delay (setting from 0 to 3 s)
- Peak value memory (within the measurement range)
- Pin protection possible to prevent misuse
- Socket device included

p max. in bar	Burst pressure in bar	Adjustment range in bar	Thread	Order number:
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#### 0570 Electronic pressure switches

p max. in bar	Burst pressure in bar	Adjustment range in bar	Thread	Order number:
20 <sup>1)</sup>	25	0 - 10	G 1/4 female thread	0570 - 467 14 - X - 001
150 <sup>1)</sup>	175	0 - 100		0570 - 468 14 - X - 001
600 <sup>1)</sup>	700	0 - 400		0570 - 469 14 - X - 001

#### Seal material – Application areas

<b>NBR:</b>	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	<b>1</b>
<b>EPDM:</b>	Break fluid, ozone, acetylene, hydrogen, etc.	<b>2</b>
<b>FKM:</b>	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	<b>3</b>

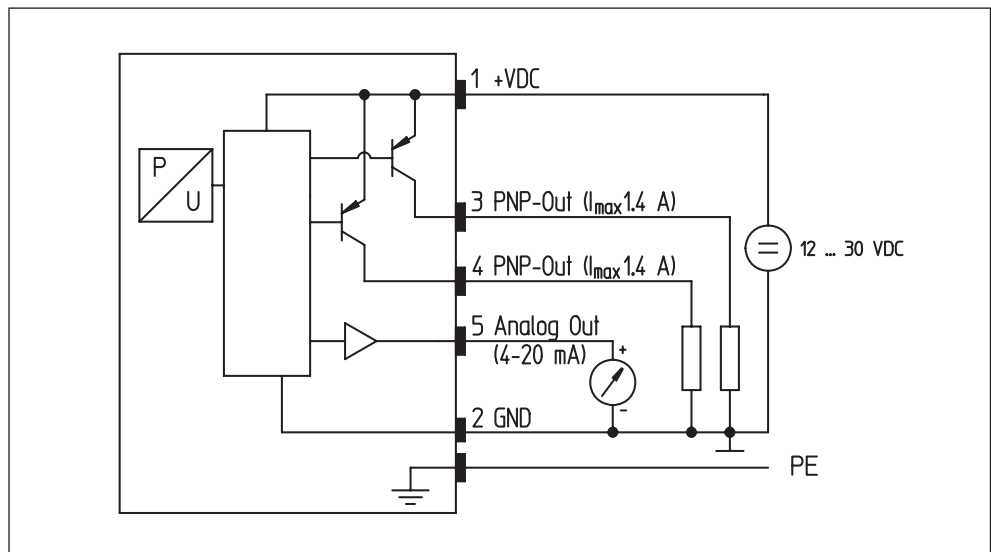
Refer to page 119 for the temperature range and application thresholds of sealing materials



Order number:

0570 - XXX 14 - X - 001

#### Wiring chart



<sup>1)</sup> Static pressure, dynamic pressure 30 to 50% lower. Values refer to the hydraulic or pneumatic part of the electronic pressure switch.