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## **ДАТЧИКИ И РЕЛЕ ДАВЛЕНИЯ**



## Pressure Switch for neutral gases and liquids

- For neutral gases and liquids
- Models normally open contact, normally closed contact or change-over contact
- Switching point can be adjusted with grub screw



Product variants described in the data sheet may differ from the product presentation and description.

### Type description

The pressure switch is used to convert adjustable pneumatic signals into electrical signals.

## 1. General technical data

### 1.1. Normally open contact, AF19

Product properties	
<b>Material</b>	
Housing	Brass
Diaphragm	NBR, others on request
Dimensions	More detailed information can be found in the chapter <a href="#">“2. Dimensions” on page 4.</a>
Switching function	Normally open contact
Mechanical life	10 <sup>6</sup>
Protection class	IP00 (IP20, with protection cap)
<b>Electrical data</b>	
Reference voltage	Max. 42 V
Switching current	Max. 2 A
<b>Performance data</b>	
Setting range	1...10 bar
Bursting pressure	20 bar
Switch-back difference	10...15 %
Switching frequency	Max. 200/min.
<b>Medium data</b>	
Medium	Air
Medium temperature	-25 to +85 °C

### 1.2. Normally open/Normally closed contact/changeover contact, AF24

Product properties	
<b>Material</b>	
Housing	Galvanised steel, stainless steel, brass
Diaphragm	<b>Version 1:</b> NBR-Diaphragm <b>Version 2:</b> UR-Dichtung
Dimensions	More detailed information can be found in the chapter <a href="#">“2. Dimensions” on page 4.</a>
Switching function	Normally open contact, normally closed contact or changeover contact
Mechanical life	10 <sup>6</sup>
Design	<b>Version 1:</b> Spring-loaded diaphragm <b>Version 2:</b> Spring-loaded piston
Protection class	IP00 (IP20, with protection cap)
<b>Electrical data</b>	
Reference voltage	Max. 42 V
Switching current	Max. 2 A
<b>Performance data</b>	
Setting range	<b>Version 1:</b> 0,5...2 bar / 1...10 bar <b>Version 2:</b> 10...70 bar / 50...200 bar
Bursting pressure	<b>Version 1:</b> 10 bar / 20 bar <b>Version 2:</b> 120 bar / 300 bar
Switch-back difference	15...25 %
Switching frequency	Max. 200/min.
<b>Medium data</b>	
Medium	Air, hydraulic oil, oil emulsion, water
Medium temperature	-25 to +85 °C

### 1.3. Changeover contact, flange mounting

#### Product properties

##### Material

Housing Galvanised steel, stainless steel, brass  
 Diaphragm **Version 1:** NBR diaphragm  
**Version 2:** UR seal

Dimensions More detailed information can be found in the chapter **"2. Dimensions"** on page 4.

Switching function Changeover contact

Mechanical life  $10^6$

Design **Version 1:** Spring-loaded diaphragm  
**Version 2:** Spring-loaded piston

Protection class IP65 cable plug type Type 2518

#### Electrical data

Reference voltage Max. 250 V

Switching current Max. 5 A

#### Performance data

Setting range **Version 1:** 0,3...2 bar / 1...10 bar  
**Version 2:** 1...70 bar / 50...200 bar

Bursting pressure **Version 1:** 20 bar / 20 bar  
**Version 2:** 250 bar / 300 bar

Switch-back difference 15...25 %

Switching frequency Max. 200/min.

#### Medium data

Medium Air, hydraulic oil, oil emulsion, water

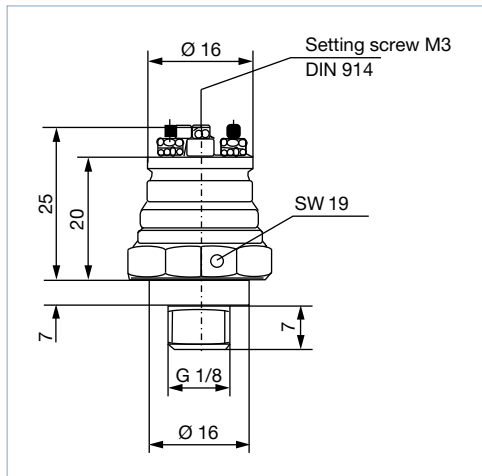
Medium temperature -25 to +85 °C

## 2. Dimensions

### 2.1. Normally open contact, AF19

#### Note:

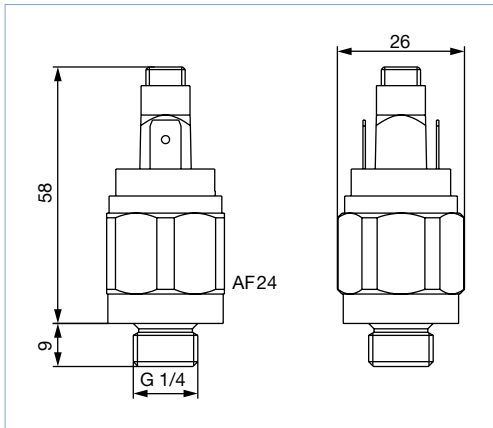
Dimensions in mm



## 2.2. Normally open/Normally closed contact/changeover contact, AF24

**Note:**

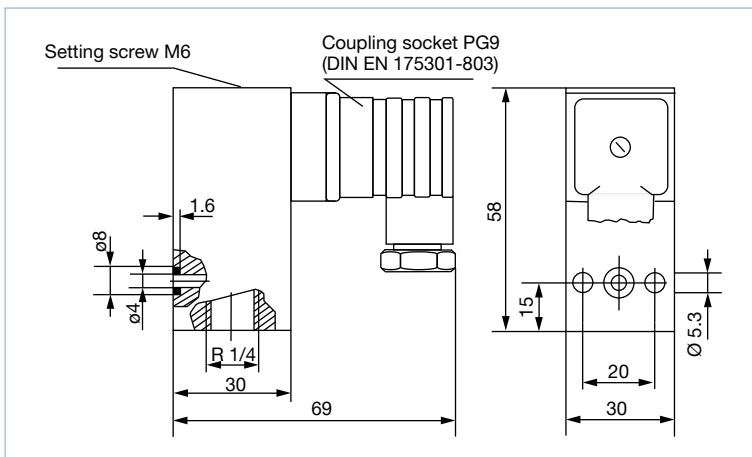
Dimensions in mm



## 2.3. Changeover contact, flange mounting

**Note:**

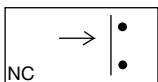
Dimensions in mm



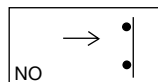
## 3. Product operation

### 3.1. Functional overview

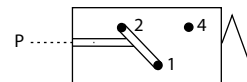
**NO normally open contact**



**NC normally closed contact**



**Changeover contact**



## 4. Ordering information

### 4.1. Bürkert eShop – Easy ordering and quick delivery

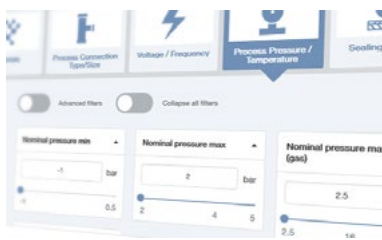


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### 4.2. Bürkert product filter



#### Bürkert product filter – Get quickly to the right product

















You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

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### 4.3. Ordering chart

#### Note:

Further versions on request

Size	Version	Setting range	Article no.	
AF19	NO - normally open contact	1 ... 10 bar	780494 	
AF24	NO - normally open contact	0.5 ... 2 bar	772503 	
		1 ... 10 bar	780496 	
		10 ... 70 bar	787283 	
		50 ... 200 bar	787284 	
	NC - normally closed contact	0.5 ... 2 bar	772500 	
		1 ... 10 bar	780495 	
		10 ... 70 bar	787286 	
	Changeover contact		50 ... 200 bar	787287 
			0.5 ... 2 bar	772506 
1 ... 10 bar			772515 	
10 ... 70 bar			772524 	
Flange mounting	Changeover contact	50 ... 200 bar	772536 	
		0.3 ... 2 bar	784230 	
		1 ... 10 bar	780499 	
		10 ... 70 bar	787289 	
		50 ... 200 bar	787290 