

### Technical Data

Max. voltage	42 V
Rated thermal current (ohmic load)	≤ 4 A
Switching capacity	< 100 VA
Switching frequency	200 / min.
Mechanical life	1.000.000 cycles
Max. pressure ramp rate	≤ 1 bar / ms
Resistance against vibrations	10 g / 5 – 200 Hz sine
Resistance against shock	294 m/s <sup>2</sup> ; 14 ms semi-sine
Degree of protection	IP65 plugs IP00

### 0164 Diaphragm pressure switch with screw terminals (M3)

Adjustment range (tolerance at room temperature)	Thread	normally open (no) →  :						normally closed (nc) → :					
0.1 – 1 (± 0.2) bar 1.45 – 14.5 (± 2.9) PSI	BSPT 1/8 (R 1/8)	0164	401	12		001	0164	402	12		002		
	BSPP 1/4-E (G 1/4-E)	0164	401	41		001	0164	402	41		002		
	BSPT 1/4 (R 1/4)	0164	401	46		001	0164	402	46		002		
1 – 10 (± 0.5) bar 14.5 – 145 (± 7.25) PSI	BSPT 1/8 (R 1/8)	0164	405	12		005	0164	406	12		006		
	BSPP 1/4-E (G 1/4-E)	0164	405	41		005	0164	406	41		006		
	BSPT 1/4 (R 1/4)	0164	405	46		005	0164	406	46		006		
10 – 20 (± 1.0) bar 145 – 290 (± 14.5) PSI	BSPT 1/8 (R 1/8)	0164	409	12		009	0164	410	12		010		
	BSPP 1/4-E (G 1/4-E)	0164	409	41		009	0164	410	41		010		
	BSPT 1/4 (R 1/4)	0164	409	46		009	0164	410	46		010		
20 – 50 (± 2.0) bar 290 – 725 (± 29) PSI	BSPT 1/8 (R 1/8)	0164	413	12		013	0164	414	12		014		
	BSPP 1/4-E (G 1/4-E)	0164	413	41		013	0164	414	41		014		
	BSPT 1/4 (R 1/4)	0164	413	46		013	0164	414	46		014		

### 0164 Diaphragm pressure switch with spade terminals (AMP 6.3 x 0.8)



0.1 – 1 (± 0.2) bar 1.45 – 14.5 (± 2.9) PSI	BSPT 1/8 (R 1/8)	0164	403	12		003	0164	404	12		004
	BSPP 1/4-E (G 1/4-E)	0164	403	41		003	0164	404	41		004
	BSPT 1/4 (R 1/4)	0164	403	46		003	0164	404	46		004
1 – 10 (± 0.5) bar 14.5 – 145 (± 7.25) PSI	BSPT 1/8 (R 1/8)	0164	407	12		007	0164	408	12		008
	BSPP 1/4-E (G 1/4-E)	0164	407	41		007	0164	408	41		008
	BSPT 1/4 (R 1/4)	0164	407	46		007	0164	408	46		008
10 – 20 (± 1.0) bar 145 – 290 (± 14.5) PSI	BSPT 1/8 (R 1/8)	0164	411	12		011	0164	412	12		012
	BSPP 1/4-E (G 1/4-E)	0164	411	41		011	0164	412	41		012
	BSPT 1/4 (R 1/4)	0164	411	46		011	0164	412	46		012
20 – 50 (± 2.0) bar 290 – 725 (± 29) PSI	BSPT 1/8 (R 1/8)	0164	415	12		015	0164	416	12		016
	BSPP 1/4-E (G 1/4-E)	0164	415	41		015	0164	416	41		016
	BSPT 1/4 (R 1/4)	0164	415	46		015	0164	416	46		016

! Order number add figure for diaphragm/seal material

0164	XXX	XX	X	XXX	0164	XXX	XX	X	XXX
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NBR (Buna N)	Hydraulic / machine oil, turpentine, heating oil, air etc.	1	-30°C ... +100°C (-22°F ... +212°F)	1
EPDM	Hydrogen, acetylene, ozone, brake fluid, etc.	2	-30°C ... +120°C (-22°F ... +248°F)	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.	3	-5°C ... +120°C (23°F ... +248°F)	3

### Accessories:

 <p><b>Protective cap</b> with central cable gland for 1.5-5 mm cable diameter Not suitable for voltages above 42V! <b>Order number:</b> 1-1-66-621-010</p>	 <p><b>Protective cap</b> with two cable entries for 1.7-2.2 mm cable diameter Not suitable for voltages above 42V! <b>Order number:</b> 1-1-66-621-003</p>
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### Warning:

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 50 bar (145 PSI) is not exceeded.

<sup>1)</sup> Static value, dynamic value should be 30-50% 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.



• Also available with set point preset at works

• Other body materials and connection threads on request

• Other diaphragm/seal materials e.g. HNBR, silicone on request.

• Thread G1/4 acc. DIN 3852-E with integrated sealing

• Thread R1/8 and R1/4 acc. DIN 3858