



0164

Diaphragm pressure switch

Maximum voltage 42 V

Stainless steel body (AISI 303 / 1.4305)

Overpressure safe to 8700 psi ¹⁾

With male thread



AMP 0.25x0.03" (6.3x0.8 mm) tin-plated



- 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 1/6" BSPP-E to IN 3852 with bonded seal
- Thread 1/8" BSPT and 1/6" BSPT to DIN 3858

0164 Diaphragm pressure switch with screw terminals (M3)

Adjustment range (tolerance at room temperature)	Thread	normally open (no) → I*					normally closed (nc)) → ;				
		0164	401	12	001	0164	402	12	002		
1.45 – 14.5 (± 2.9) PSI	1/8" BSPT	0164	401	12	001	0164	402	12	002		
	1/4" BSPP-E	0164	401	41	001	0164	402	41	002		
	1/4" BSPT	0164	401	46	001	0164	402	46	002		
14.5 – 145 (± 7.25) PSI	1/8" BSPT	0164	405	12	005	0164	406	12	006		
	1/4" BSPP-E	0164	405	41	005	0164	406	41	006		
	1/4" BSPT	0164	405	46	005	0164	406	46	006		
145 – 290 (± 14.5) PSI	1/8" BSPT	0164	409	12	009	0164	410	12	010		
	1/4" BSPP-E	0164	409	41	009	0164	410	41	010		
	1/4" BSPT	0164	409	46	009	0164	410	46	010		
290 – 725 (± 29) PSI	1/8" BSPT	0164	413	12	013	0164	414	12	014		
	1/4" BSPP-E	0164	413	41	013	0164	414	41	014		
	1/4" BSPT	0164	413	46	013	0164	414	46	014		

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



1.45 – 14.5 (± 2.9) PSI	1/8" BSPT	0164	403	12	003	0164	404	12	004
	1/4" BSPP-E	0164	403	41	003	0164	404	41	004
	1/4" BSPT	0164	403	46	003	0164	404	46	004
14.5 – 145 (± 7.25) PSI	1/8" BSPT	0164	407	12	007	0164	408	12	008
	1/4" BSPP-E	0164	407	41	007	0164	408	41	008
	1/4" BSPT	0164	407	46	007	0164	408	46	008
145 – 290 (± 14.5) PSI	1/8" BSPT	0164	411	12	011	0164	412	12	012
	1/4" BSPP-E	0164	411	41	011	0164	412	41	012
	1/4" BSPT	0164	411	46	011	0164	412	46	012
290 – 725 (± 29) PSI	1/8" BSPT	0164	415	12	015	0164	416	12	016
	1/4" BSPP-E	0164	415	41	015	0164	416	41	016
	1/4" BSPT	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

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

Accessories:

 <p>60</p> <p>Ø28</p>	<p>Protective cap with central cable gland for 1.5-5 mm cable diameter</p> <p>Not suitable for voltages above 42V!</p> <p>Order number: 1-1-66-621-010</p>	 <p>46</p> <p>Ø28</p>	<p>Protective cap with two cable entries for 1.7-2.2 mm cable diameter</p> <p>Not suitable for voltages above 42V!</p> <p>Order number: 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 10 bar (145 PSI) is not exceeded.

¹⁾ 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.