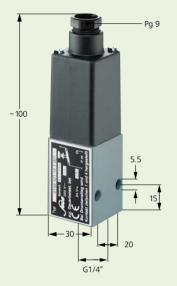
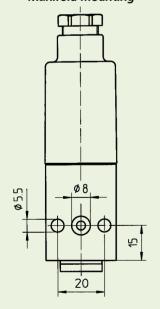
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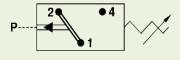
CE

0158 With internal thread



0188 Manifold mounting





 For further technical data see page 34

Suco

0158/0188

Diaphragm pressure switches, 250 V

Aluminium body With changeover switch and silver contacts Overpressure safe to 200 bar ¹⁾ Max. voltage 250 V

- See page 7 for electrical properties
- Especially suitable when the switching point is permitted to vary slightly within a given range.

Diaphragm pressure switches 0158

0188²⁾

Switching range in bar	p _{max.} in bar	Internal thread G	1/4"	Manifold mounting		
0.5 - 1.5		0158 421 14	001	0188 421 14	001	
1.5 - 3.0	200* ⁾	0158 422 14	001	0188 422 14	001	
3.0 - 5.0		0158 423 14	001	0188 423 14	001	
5.0 - 7.5		0158 424 14	001	0188 424 14	001	
7.5 - 10		0158 425 14	001	0188 425 14	001	

	er Number: 015 figure for diaphragm/seal material	8 XXX	XX	X	XXX	0188	XXX	XX	X	XXX
NBR	Hydraulic / machine oil, turpentine, heating oil, a	ir etc.	=	1				=	1	
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.		=	2				=	2	
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gaso	oline etc.	=	3				=	3	
	See page 34 for temperature ranges of diaphragm n	naterials								

²⁾ 0188 Diaphragm pressure switch: scope of supply includes O-ring NBR 5 x 1.5 mm

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 is not exceeded.

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.

^{*)} 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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Pressure Switches 30 A/F

Changeover contacts



TECHNICAL DATA

Degree of protection:	IP 65 valve connector fitted
Switching frequency:	200 / min.
Temperature stability:	NBR -30° +100°C EPDM -30° +120°C FKM -5° +120°C
Mechanical life expectancy:	10 ⁶ cycles (at pressures up to 50 bar)
Vibration resistance:	10 g / 5-200 Hz sine-wave
Shock resistance:	294 m/s²; 14 ms half-sine-wave
Body material:	AlMgSi1 F28
Switching performance:	see page 7



- Panel or manifold mounting for clear, maintenance-friendly installation
- Easily adjustable by user 1)
- Many types have adjustable hysteresis²⁾
- High-quality micro-switch for reliable switching
- High overpressure safety
- Connection plug for simple installation on site



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 pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/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.



¹⁾ Except models 0158, 0188

²⁾ Except models 0158, 0159, 0188

Electrical Data

Rated operating voltage U _e	Rated operating	current I _e	Utilisation category	Model ranges:
250 volt AC 50 / 60 Hz	4 amp	(2 amp)*	AC 12	
250 volt AC 50 / 60 Hz	1 amp		AC 14	0140
24 volt DC	4 / 4 amp	(2 / 1 amp)*	DC 12 / DC 13	
50 volt DC	2 / 1 amp	(1 / 0.5 amp)*	DC 12 / DC 13	0141
75 volt DC	1 / 0.5 amp	(0.5 / 0.25 amp)*	DC 12 / DC 13	0180
125 volt DC	0.3 / 0.2 amp	(0.2 / 0.1 amp)*	DC 12 / DC 13	0180
250 volt DC	0.25 / 0.2 amp	(0.15 / 0.1 amp)*	DC 12 / DC 13	0181
Rated insulation voltage U _i :	300 Volt			0404
Rated surge capacity U _{imp} :	2.5 kV (4 kV)*			0184
Rated thermal current I _{the} :	5 amp			0185
Switching overvoltage:	< 2.5 kV			
Rated frequency:	DC und 50 / 60 I			0186
Rated current of short-circuit protection:	Up to 5 amp	(up to 3.5 amp)*		0187
Conditional short-circuit current:	< 350 amp	(up to 3.5 ump)		0.107
IP degree of protection to EN60529:1991+A1:1999:	IP 65		With plug	
Tightening torque of terminal screws:	< 0.35 Nm		with plug	* Figures in brackets apply
Conductor cross-section:	0.5 – 1.5 mm ²			to Types 0140 und 0141
Rated operating voltage U _p	Rated operating	current l	Utilisation satogony	Model ranges:
		current i _e	Utilisation category	Wiodel ranges.
250 volt AC 50 / 60 Hz	5 amp		AC 12	
250 volt AC 50 / 60 Hz	1 amp		AC 14	
30 volt DC	3.5 / 3.5 amp		DC 12 / DC 13	
50 volt DC	2 / 1 amp		DC 12 / DC 13	0150
75 volt DC	1 / 0.5 amp		DC 12 / DC 13	0150
125 volt DC	0.3 / 0.2 amp		DC 12 / DC 13	
250 volt DC	0.35 / 0.2 amp		DC 12 / DC 13	0161
Rated insulation voltage U _i :	300 volt			0101
Rated surge capacity U _{imp} :	2.5 kV			
Rated thermal current I _{the} :	6 amp			0162
Switching overvoltage:	< 2.5 kV			
Rated frequency:	DC und 50 / 60 l	Нz		
Rated current of short-circuit protection:	Up to 6,3 amp			0175
Conditional short-circuit current:	< 350 amp			
IP degree of protection to EN60529:1991+A1:1999:	IP 65		With plug	
Tightening torque of terminal screws:	< 0.35 Nm			
Conductor cross-section:	0.5 – 1.5 mm ²			
Rated operating voltage U _e	Rated operating	current I	Utilisation category	Model ranges:
250 volt AC 50 / 60 Hz	2.5 amp		AC 12	
250 volt AC 50 / 60 Hz	1 amp		AC 14	
30 volt DC	2 / 2 amp		DC 12 / DC 13	
50 volt DC	1 / 0.5 amp		DC 12 / DC 13	
75 volt DC	0.75 / 0.4 amp		DC 12 / DC 13	0450
125 volt DC	0.3 / 0.2 amp		DC 12 / DC 13	0158
250 Volt DC	0.3 / 0.2 amp		DC 12 / DC 13	
Rated insulation voltage U _i :	300 Volt		DC 12 / DC 13	
Rated surge capacity U _{imp} :	2.5 kV			0159
r				0139
Rated thermal current I _{the} :	6 amp			
Switching overvoltage:	< 2.5 kV			
Rated frequency:	DC and 50 / 60 l	1Z		0188
Rated current of short-circuit protection:	Up to 2.5 amp			U 100
Conditional short-circuit current:	< 350 amp			
IP degree of protection to EN60529:1991+A1:1999:	IP 65	With plug		
Tightening torque of terminal screws:	< 0.5 Nm			
Conductor cross-section:	0.5 - 1.5 mm ²			