

CE Marking

Directives of the European Council

**Machinery Directive,
 EMC Directive
 Low Voltage Directive
 ATEX Directive**

Pressure Switches 30 A/F

Snap action micro-switch



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.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalog pages for the relevant switches carry the CE marking.



Technical data

Degree of protection:	IP65 valve connector fitted		
Switching frequency:	200 / min.		
Temperature stability for diaphragm/seal materials:	NBR (BunaN)	-22 °F – +212 °F	(-30 °C – +100 °C)
	EPDM	-22 °F – +248 °F	(-30 °C – +120 °C)
	FKM	23 °F – +248 °F	(-5 °C – +120 °C)
Mechanical life expectancy:	10 ⁶ cycles (at pressures up to 725 psi)		
Vibration resistance:	10 g / 5–200 Hz sine-wave		
Shock resistance:	294 m/s ² ; 14 ms half-sine-wave		
Body material:	AlMgSi1 F28		
Switching performance:	see page 7		
Differential:	Type 0159:	10 – 30 % (not adjustable)	
	Type 0161, 0162, 0175:	10 – 30 % (adjustable at factory)	

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

Electrical Data

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Rated operating voltage U_e	Rated operating current I_e	Utilization category	Model ranges:
250 volt AC 50 / 60 Hz	4 amp (2 amp)*	AC 12	0140 0141 0180 0181 0183 0184 0185 0186 0187
250 volt AC 50 / 60 Hz	1 amp	AC 14	
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	
75 volt DC	1 / 0.5 amp (0.5 / 0.25 amp)*	DC 12 / DC 13	
125 volt DC	0.3 / 0.2 amp (0.2 / 0.1 amp)*	DC 12 / DC 13	
250 volt DC	0.25 / 0.2 amp (0.15 / 0.1 amp)*	DC 12 / DC 13	
Rated insulation voltage U_i :	300 volt		
Rated surge capacity U_{imp} :	2.5 kV (4 kV)*		
Rated thermal current I_{the} :	5 amp		
Switching overvoltage:	< 2.5 kV		
Rated frequency:	DC und 50 / 60 Hz		
Rated current of short-circuit protection:	Up to 5 amp (up to 3.5 amp)*		
Conditional short-circuit current:	< 350 amp		
IP degree of protection to EN60529:1991+A1:1999:	IP65 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_e	Utilization category	Model ranges:
250 volt AC 50 / 60 Hz	5 amp	AC 12	0150 0161 0162 0175
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	
75 volt DC	1 / 0.5 amp	DC 12 / DC 13	
125 volt DC	0.3 / 0.2 amp	DC 12 / DC 13	
250 volt DC	0.35 / 0.2 amp	DC 12 / DC 13	
Rated insulation voltage U_i :	300 volt		
Rated surge capacity U_{imp} :	2.5 kV		
Rated thermal current I_{the} :	6 amp		
Switching overvoltage:	< 2.5 kV		
Rated frequency:	DC and 50 / 60 Hz		
Rated current of short-circuit protection:	Up to 6.3 amp		
Conditional short-circuit current:	< 350 amp		
IP degree of protection to EN60529:1991+A1:1999:	IP65 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_e	Utilization category	Model ranges:
250 volt AC 50 / 60 Hz	2.5 amp	AC 12	0159
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	
125 volt DC	0.3 / 0.2 amp	DC 12 / DC 13	
250 volt DC	0.3 / 0.2 amp	DC 12 / DC 13	
Rated insulation voltage U_i :	300 volt		
Rated surge capacity U_{imp} :	2.5 kV		
Rated thermal current I_{the} :	6 amp		
Switching overvoltage:	< 2.5 kV		
Rated frequency:	DC and 50 / 60 Hz		
Rated current of short-circuit protection:	Up to 2.5 amp		
Conditional short-circuit current:	< 350 amp		
IP degree of protection to EN60529:1991+A1:1999:	IP65 with plug		
Tightening torque of terminal screws:	< 0.5 Nm		
Conductor cross-section:	0.5 – 1.5 mm ²		

* Figures in brackets apply to types 0140 and 0141

The utilization category describes among other things the voltages and currents and the way of load for our pressure switches according DIN EN 60947-5-1	Utilization category
AC 12 : Drive of resistive loads and semiconductor input circuits of optoelectronic couplers (e.g. PLC inputs)	
AC 14 : Drive of electromagnetic loads up to 72 VA	
DC 12 : Drive of resistive loads and semiconductor input circuits of optoelectronic couplers (e.g. PLC inputs)	
DC 13 : Drive of electromagnet	