

Explosion-Protected Pressure Switches

To new ATEX standard



Technical data

	0165	0340	0341
Degree of protection:	IP65		
Protection zone:	1	22	22
Switching power:	1 A / 250 VAC 0.25 A / 250 VDC	2 A / 250 VAC	
Body material:	AlMgSi1 F28	Steel, zinc-plated Anodised aluminum	
Conductor cross-section:	3 x 0.75 mm ²	3 x 0.5 mm ²	
Switching frequency:	200 / min.		
Temperature range:	NBR, EPDM: -4 – +176 °F (-20 – +80 °C); FKM: +23 – +176 °F (-5 – +80 °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/s ² ; 14 ms half-sine-wave		
Cable length:	standard delivery 2 m with wire end sleeves		
Differential:	10 – 30% (not adjustable)		



Technical data

- ATEX-certified for use in potentially-explosive atmospheres
- Compact design
- Micro-switch for reliable operation
- Switching point can be easily adjusted by user when switch is in operation

Explosion-protected pressure switches are classified by ATEX and approved according to the type of combustible material that may be expected where they are to be used. The sub-divisions are:

Gases and vapors

Dusts

Methane dust

Our pressure switches are suitable for gases and vapors, or for dust according to type. They are not suitable for use in methane dust (mining applications).

The table provides an overview of the sub-division into zones, equipment groups and equipment categories.

Conditions in locations with potentially-explosive atmosphere

Combustible material	Occurrence of combustible material in location	Designation of location with specified hazard	Marking required on equipment to be used in the specified zone	
			Equipment group	Equipment category
Gases Vapors	Present continuously, for long periods or frequently	Zone 0	II	1G
	Occurs occasionally	Zone 1	II	2G or 1G
	Unlikely to occur, and then only seldom or for short periods	Zone 2	II	3G or 2G or 1G
Dusts	Present continuously, for long periods or frequently	Zone 20	II	1D
	Occurs occasionally	Zone 21	II	2D or 1D
	Occurs if accumulated dust is disturbed, and then only seldom or for short periods	Zone 22	II	3D or 2D or 1D
Methane Dust	–	Mining industry	I	M1
	–	Mining industry	I	M1 or M2

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.

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.