

Pressure switches „PLUS“

with integrated connector & intelligent functions

Suco

P R E S S U R E M O N I T O R I N G



Pressure switch hex 24

with integrated connector & electrical components



With this flyer, we want to give you a short overview on the different options you can choose from. Special solutions can even offer a combination of the individual options.

Enhanced functionalities by adding electronic features to our mechanical pressure switches such as

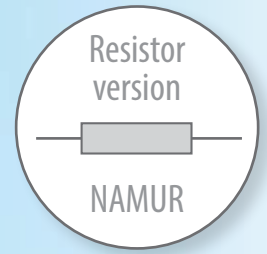
- NAMUR Resistor – for **fail-safe** applications
- NTC Thermistor – for **cold start** functionalities
- Varistor – for switching **inductive loads**
- PTC thermistor – for **in-rush protection**
- LED – convenient **switching status monitoring**
- Multifuse – **overcurrent protection** with a self-resetting fuse

Our new Pressure switches „**PLUS**“ are the ideal solution for many pressure monitoring applications, because they incorporate optional features of electronic pressure monitoring products by maintaining the advantages of a mechanical pressure switch such as high over-pressure safety and ease of use.

As being inbuilt in our pressure switches with integrated connectors, the switches remain compact, easy to connect and fulfill a high IP protection of IP67 and/or IP6K9K.



Fail-safe functionality



Our NAMUR resistor version is an essential solution for fail-safe applications, such as braking systems, fire extinguishing etc. By evaluating the resistance values you can always assure a correct connection and functionality of the switch – thus, this is the ideal solution for safety-relevant applications.

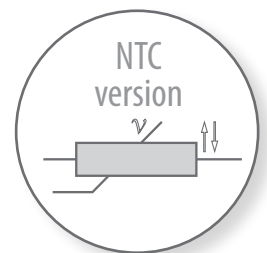
Using our resistor version will help you to reach your goals of:

- Safe usage and determination of the switching status
- High availability
- Status monitoring as an added value to the machine

| Switching status | Closed | Open | Short-circuit SC | Line break LB |
|------------------|--------|------|------------------|---------------|
| Contact | | | | |
| Resistor | | | | |
| Current | | | | |

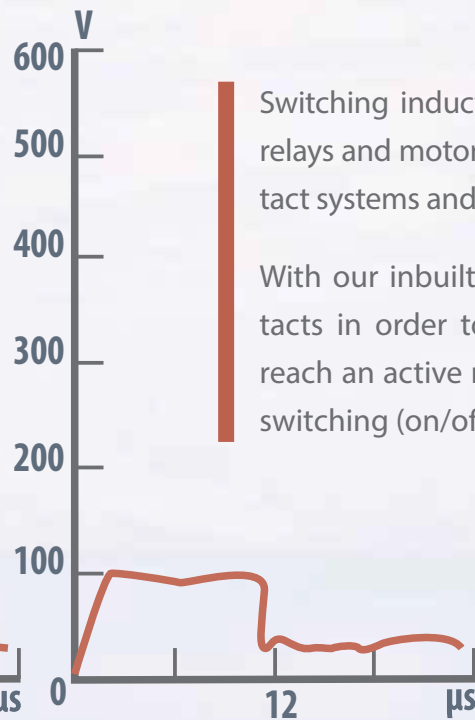
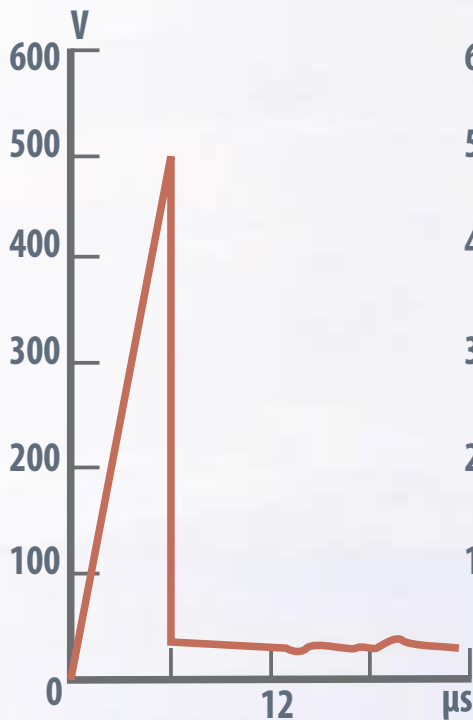
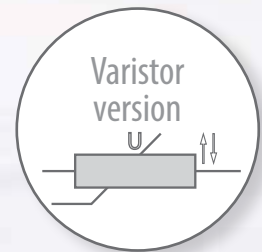


Cold start



Our NTC version enables a temperature-controlled pressure switch action. By using a temperature depending component (NTC) the switch signal can get overruled until a certain temperature is reached. A typical application is in the filter monitoring of lubrication systems. With our NTC-Version we have integrated a cold start functionality in a mechanical pressure switch.

Protection of inductive load



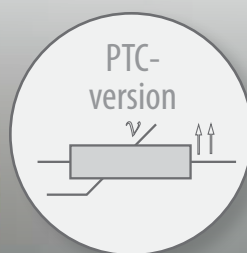
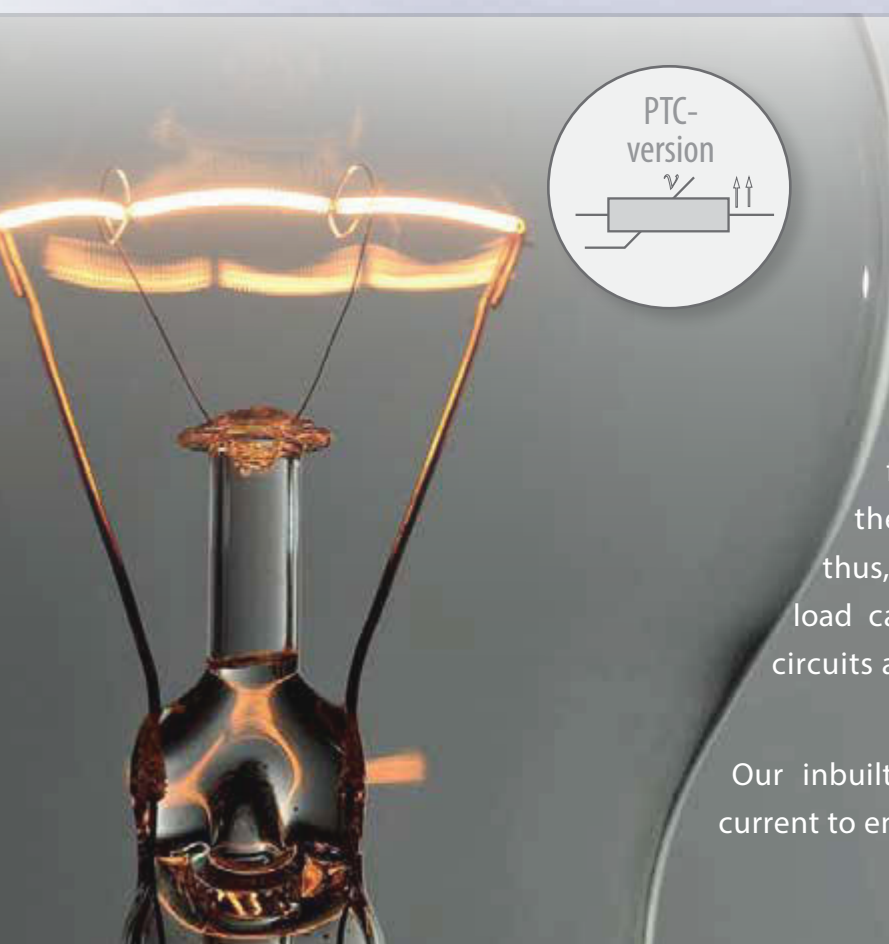
Switching inductive loads, such as solenoid valves, relays and motors is a challenge for mechanical contact systems and micro switches.

With our inbuilt varistors we can protect the contacts in order to extend its lifetime, and we also reach an active reduction of EMC emissions during switching (on/off) of the pressure switch.



*>> LONG-LASTING AND ROBUST SOLUTIONS
AT AN ATTRACTIVE PRICE!<<*

Adam Bjellquist, OEM Automatic



Reduction of capacitive load

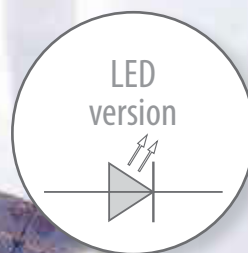
When illuminating, filament lamps show high in-rush currents, which are usually a few times higher than the rated current of the lamp. These high currents can burn and thus, destroy the electronic contacts. Capacitive load can also cause big damage to electronic circuits and contacts.

Our inbuilt PTC thermistor does limit the in-rush current to ensure an extended lifetime.

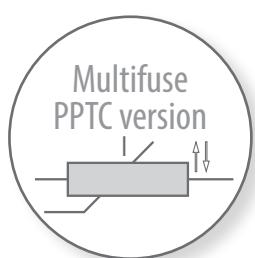
LED-switching status display

A control of the switching status by standard pressure switches is quite difficult, unless you do have a measurement tool connected.

With our integrated LED light, it is now possible to see the switching status directly on the switch.



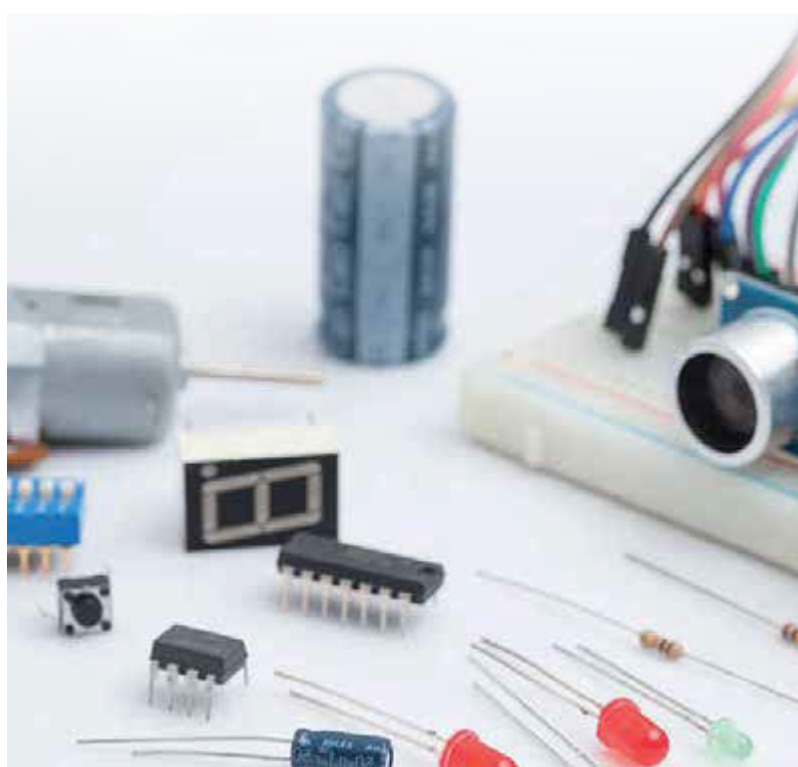
Load cut off



A multifuse (PPTC) works in a similar way like a PTC, which helps to overcome the challenges when switching high loads.

The main difference is, that a PTC is used to limit the load to a safe level, whereas a multifuse PPTC switches off the load completely, when it exceeds certain limits and resets itself after cooling down.

By using a multifuse you reach a high protection level of your load circuits.



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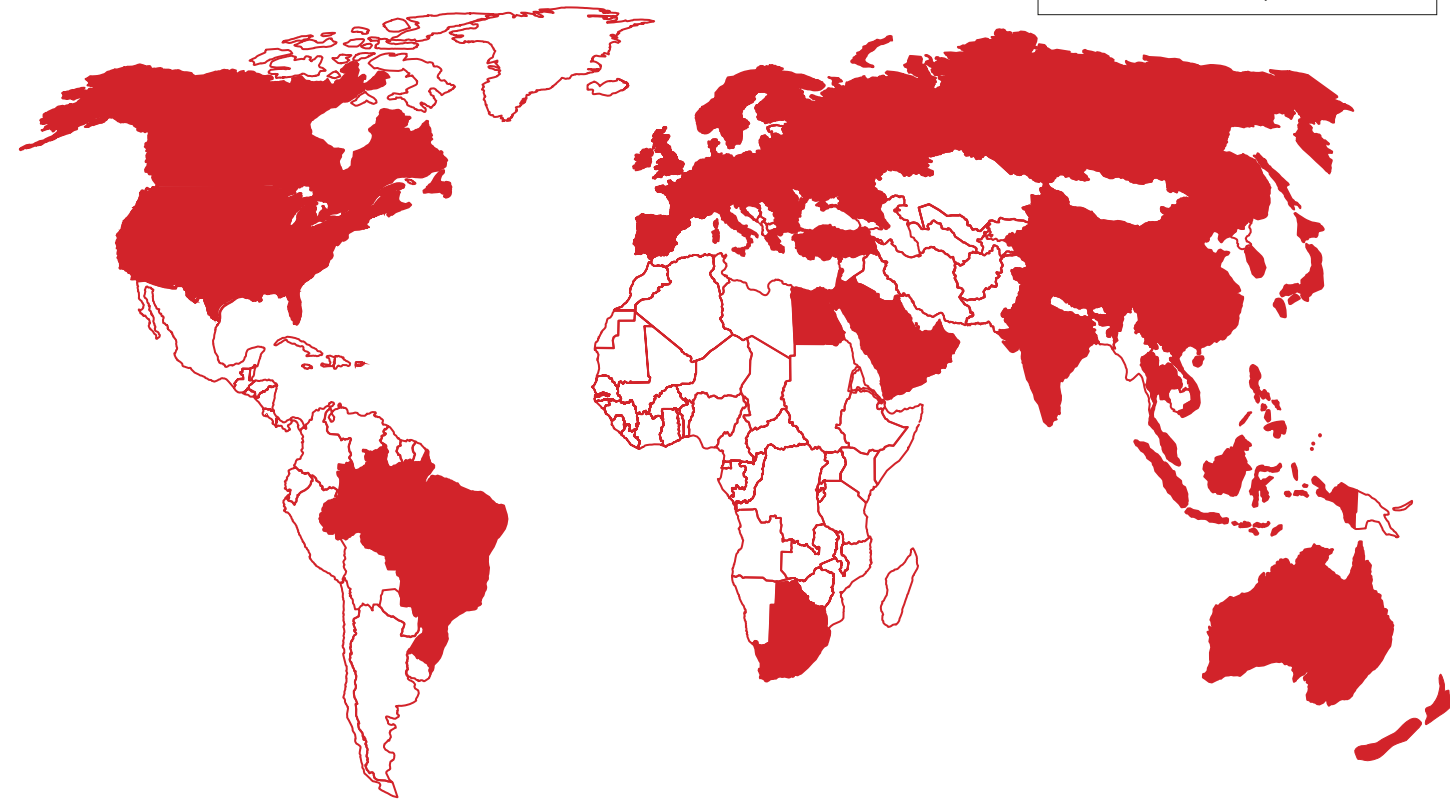
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We are looking forward to explaining and discussing these features with you.
Contact your nearest SUCO partner.



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1-0-00-999-116 / 0 / 01.2019 / Edition No. 2

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PRESSURE MONITORING

