

# polycontact

satisfaction through innovation and speed

We are a Swiss technology company with over 60 years of history, specializing in Buckle Switches, Seat Sensors, Position Sensors, Electronics & Lightings, Wire Harnesses, and Services. With a production plant in Romania, we offer high flexibility, fast development, and extensive experience, delivering clear added value, especially in the automotive industry.



## Buckle Switches.

Switches for lock detection of seat belt buckles.



## Seat Sensors.

Seat sensors to detect and measure the seat positions.



## Position Sensors.

Position sensors and angular sensors for vehicle kinematic applications.



## Electronics / Lightings.

Peripheral automotive electronics and lightings for various applications.



## Wire Harnesses.

Assembly of customerspecific cable harnesses.



## Services.

Technical services based on established Polycontact competencies.



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## Buckle Switches



### Description

Our belt buckle switches are used in vehicles to detect the situation belt fastened / belt unfastened.

Innovative designs and highly automated manufacturing processes ensure the highest product quality at the lowest cost.

### Products

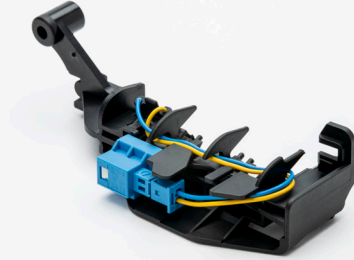
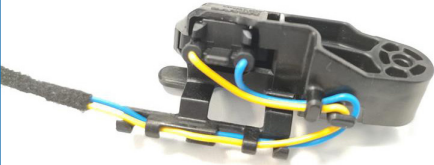
For our customers belt systems and belt buckles, we offer a reliable, cost-optimized detection of the lock statuses of different switch technologies.

- Resistance-coded buckle switches
- Uncoded buckle switches
- Hall-based buckle switches
- Slider-based buckle switches
- Wireless buckle switches
- Cable assembly

### Scope of application

Our products make a significant contribution to your safety in the vehicle. The signals from our belt buckle switches are evaluated by the control unit and depending on occupancy and vehicle type, used to control hold-on, start / stop, handbrake and classic sound and light warnings. In addition to the normal warning function, a diagnosable belt buckle switch can be used in a traffic accident to control the airbag.

## Seat Sensors



## Description

Our seat position sensors are used as safety-relevant components in the detection of the vehicle seat position.

In close consultation with our customers, we simulate and optimize the sensor function directly in the respective seat structure, enabling us to develop and produce high-precision products at the lowest possible cost.

## Products

We supply innovative and contactless seat position sensors for various applications in the vehicle seat.

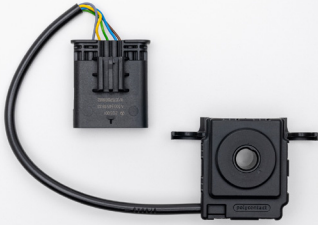
- Seat Track Position Sensors (STPS) for detecting the front / rear seat position
- STPS-TriPo (Triple Position) for detecting the front / center / rear seat position
- STPS-Linear for absolute position detection on the seat track
- Seat sensors for detecting the seat backrest angle
- Seat sensors for detecting the angle of inclination of the seat surface
- Cable assembly

## Scope of application

Our advanced seat sensors are specifically designed for various vehicle seats, seat structures and seat rails to enable non-contact position sensing. These high-precision sensors provide real-time position information to the control unit, which is crucial for occupant safety. They are effectively used for staged airbag deployment to provide optimum protection in the event of an accident.



## Position Sensors



### Description

Our position sensors are used in convertible roofs, spoilers, door lock systems and many other kinematic systems in vehicles.

Our position sensors, whether proven standard products or customized new developments, always meet the highest requirements and are specifically adapted to our customers applications through simulations.

### Products

We offer products for high-precision non-contact positioning for various vehicle applications thanks to the use of state-of-the-art sensor technologies.

- Position switches
- Position sensors
- Rotation sensors
- Multiturn sensors
- Magnetic holder
- Cable assembly

### Scope of application

Our sensors are used in various kinematic systems in the vehicle.

Chassis: convertible tops, rear spoilers, front diffusers, door handles, tailgates, latches

Interior: luggage compartment partition, seat belt remover, replacement for micro/reed switches, hydraulic cylinders, front and rear seats



## Electronics / Lightings



### Description

We develop and produce state-of-the-art electronic and lighting solutions aimed at improving safety and comfort in vehicles.

Our wide range of products, including integrated light bars in the steering wheel and lighting for charging flaps in electric vehicles, make a significant contribution to enhancing the functionality and design of modern automobiles.

### Products

Our products are characterized by advanced technology, high quality and tailor-made design to meet the safety and comfort needs of the automotive industry.

- Steering wheel integrated light bars
- Illuminated airbag emblems
- Child seat lighting system
- Backlit haptic button for Robotaxi door opening (exterior)
- Illumination for EV charging flaps
- Light modules for seat belt buckles
- Voltage converter
- Cable assembly

### Scope of application

Our electronics and lighting are used in a wide range of applications in the automotive industry to increase the safety and comfort of vehicle occupants. From interior design to exterior vehicle lighting, our products improve the functionality and aesthetics of modern vehicles and thus play a decisive role in increasing user-friendliness and safety standards.



## Wire Harnesses



### Description

We produce both pure cables and cable harnesses with connectors as well as cable harness assemblies with switches, sensors and various peripheral components.

Thanks to extensive production capacities in our plant in Romania, we can provide an optimal harness solution for a wide variety of product groups and applications.

### Products

Our cables and wiring harnesses connect peripheral components with control units in the vehicle.

- Seat belt buckle switch cables and wiring harnesses
- Sensor cables and wiring harnesses
- Cables for electronic and lighting components

### Scope of application

The wiring harnesses are used in vehicle seats, restraint systems, spoiler applications, convertible roofs, dashboards and many other applications and ensure interference-free signal transmission in the vehicle. With resistance coding of peripheral components, even cable breaks in the control unit can be reliably detected.



Ihre Ideen,  
unsere Expertise



Lokal in  
Chur!



## Innovation

Begleitung von der Idee bis zum Konzept

## Development

Mechanik, Optik, Elektronik, Software und Projektmanagement

## Automation

Teil- und vollautomatisierte Fertigungslinien

## Toolshop

Prototypen und Endprodukte durch Drehen, Fräsen, Erodieren und 3D-Druck

## Plastics

Kunststoffspritzguss und Teileprüfung

## Testing

EOL-Prüfsysteme und Handmessgeräte

## Laboratory

Umwelt-, Mechanik-, Elektrik- und Optiktests

## Manufacturing

Handmontage und automatisierte Produktion