

MAYSER®

Innovative by tradition.



Automotive

Mayser stands for details in automobiles.



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The automobile supplier market has a worldwide value of 620 billion euros and is a challenge for all players. The constantly growing demands require a high level of precision and reliability.

Mayser is known for its high product quality and its service orientation. In foam technology as well as safe sensory analysis, Mayser has demonstrated convincing know-how for decades already. Mayser has built up an international reputation as a specialist for complex, solution-oriented developments.

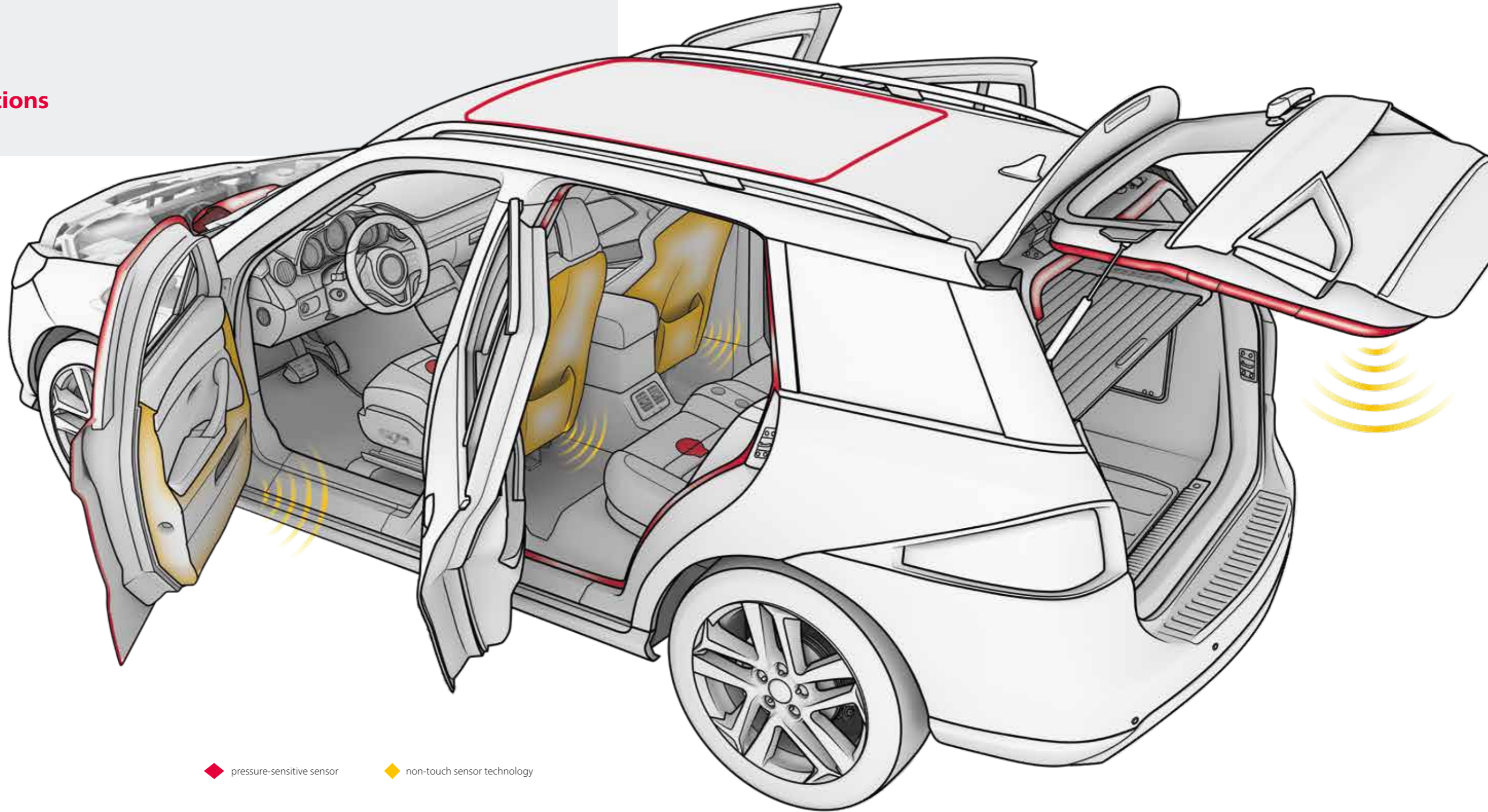
The company's product portfolio ranges from pressure-sensitive anti-pinch to seat occupancy sensors, to non-touch high-end solutions for automatically moved parts in automobiles.

Mayser has been cooperating with numerous renowned OEMs, tier-1 and tier-2 suppliers for years.

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1 Our solutions



◆ pressure-sensitive sensor

◆ non-touch sensor technology

Areas of application Safety Technology

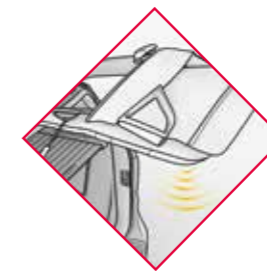
For more than ten years, Mayser has established itself as a tier-1 supplier for high-quality safety products in the automotive industry.

The portfolio comprises different safety components:

- Anti-pinch sensor
- Capacitive surface sensor
- Seat occupancy sensor



Anti-pinch sensor



Capacitive surface sensor



Seat occupancy sensor

2 Anti-pinch sensor

We secure automatically controlled locking functions in vehicles with our sensor-controlled anti-pinch protection system. This is based on miniature safety edges.

If such a safety edge encounters an obstacle on a shearing or pinching edge, then the dangerous movement is stopped immediately.

Your benefits

- ✓ Various profile geometries with safety edges
- ✓ Maintenance-free
- ✓ Customer-specific solutions
- ✓ Optimal solution for different installation heights
- ✓ Affixed or clipped onto carriers
- ✓ Pulled into seal profiles
- ✓ Development/design of the carriers in-house

i We offer complete in-house services from development to design all the way to series delivery.

Technical data

Operating principle	Pressure-sensitive
Electronic version	N/O switch principle
Overall height	4–16 mm
Actuation angle	Up to 90°
Degree of protection	IP65
Actuating path	≤ 1.0 mm
Rubber envelope profile	TPE
Customer-specific adjustments	Sizing OEM-specific standards
Possible applications	Power liftgate Sliding door Panoramic roof Window



3 Non-touch detection system

The non-touch detection system is a non-touch anti-pinch system on doors and power liftgates and seats. It is based on a capacitive sensor. If a person approaches the active zone of the sensor, then its electrical field changes. This information is evaluated by the control unit and forwarded to the door / power liftgate / seat control. The non-touch detection system is a surface sensor.



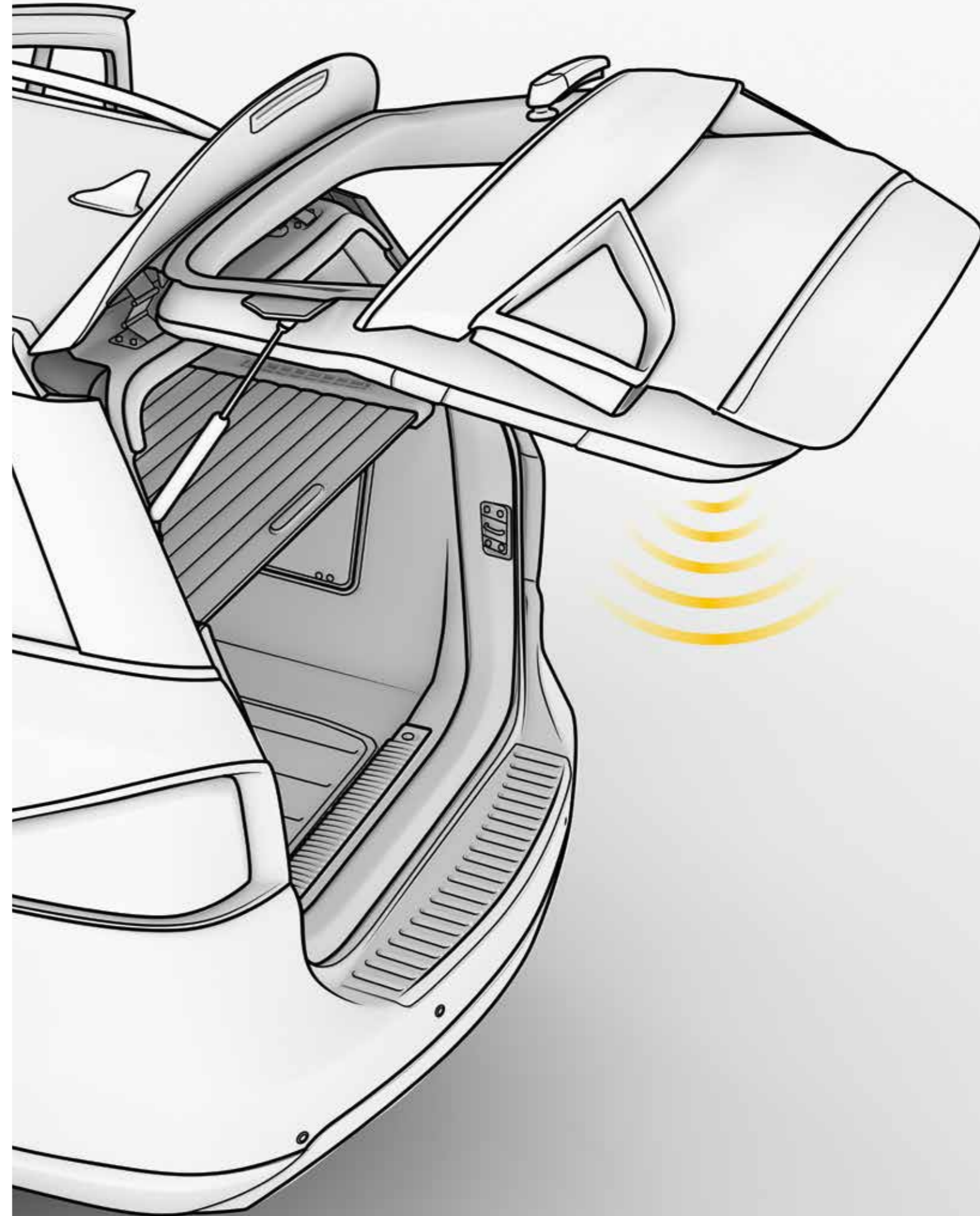
The system is impervious to electromagnetic interference.

Technical data

Operation principle	<ul style="list-style-type: none">• capacitive• non-touch
Degree of protection	<ul style="list-style-type: none">• IP5K0
Applied standards	<ul style="list-style-type: none">• EN 55025 (IEC/CISPR 25)• ISO 10605
Plug connection	<ul style="list-style-type: none">• e.g. Molex Mini50TM

Your benefits

- ✓ Reliably prevents touching and knocking over of persons
- ✓ Invisibly integrated behind the cover
- ✓ Nearly any surface geometry incl. cut-outs possible
- ✓ Attachment point individually definable
- ✓ Multi-zone configuration possible
- ✓ Tested quality



4 Seat occupancy sensor



Your benefits

- ✓ Low application effort
- ✓ One sensor for all seats
- ✓ Positioning on the B side
- ✓ Low weight
- ✓ Low power consumption
- ✓ Rugged design for long service life
- ✓ Years of know-how in automotive applications

Seat occupancy sensors are special sensors that are integrated into vehicle seats and detect seat occupancy. They trigger an alarm when the seat belt is not put on and remind the occupants of the mandatory seat belt wearing through the coupling with the seat belt reminder.

The pressure-sensitive seat occupancy sensors from Mayser can be integrated into nearly any vehicle type.

i A short circuit in the supply lines is recognized as 0 Ohm. An optional diagnostic resistance R_d can be integrated to detect cable breaks.

Technical data

Switching criteria with $v_{\text{Test}} = 5 \text{ mm/min}$

Switching force	5.3 N \pm 1 N
Switching cycles	1 \times 10 ⁶
Test sample	\varnothing 15.8 mm

Mechanical operating conditions

Dimensions (W \times H \times D)	35.4 mm \times 7.65 mm \times 30.4 mm
Weight	7 g
IEC 60529: Degree of protection	IP52
Operating temperature	-40 °C to +85 °C
Temporarily (1 h)	up to +120 °C
Storage temperature	-40 °C to +95 °C
Rel. humidity (max.) +80 °C	85 %
Fire behavior	Self-extinguishing

Electrical operating conditions

Connection cable	2 \times 0.35 mm ²
Cable length	Customer-specific
Plug connection	Customer-specific
Electrical capacity	
Voltage (max.)	DC 5 V
Current (max.)	20 mA
Resistance (SBS actuated)	270 Ohm \pm 5 %
Performance (max.)	0.1 W
EMC	Passive electronics

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