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dsound®-Sound Sensor Applications



Acoustic Tool Monitoring

- Errors – such as toolbreakage or signs of wear – generate noises that are able to be detected by the dsound®-sensor, which can be used to shut down the machine



Acoustic Leak Detection

- The dsound®-sensor is able to analyze the sounds caused by gas leaks and use them for monitoring and error detection
- The dsound®-sensor can be used in harsh industrial conditions (Degree of Protection: IP 67)



Acoustic Monitoring of Filling Lines

- The dsound®-sensor is used for monitoring glass breakage and detects sounds that indicate cracks in glass containers



Acoustic Lighting Control in Underground Parking Garages

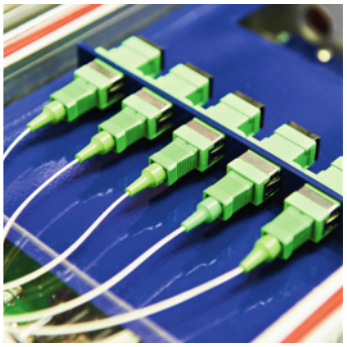
- Use of the dsound®-sensor to control lighting in underground parking garages as an alternative to motion detectors
- The dsound®-sensor ensures lighting even in difficult-to-see areas of the parking deck
- Advantages compared to motion detectors:
  - Lower installation costs & cost-efficient use for larger parking areas
  - Greater energy savings thanks to complete shutdown of lighting in the parking garage

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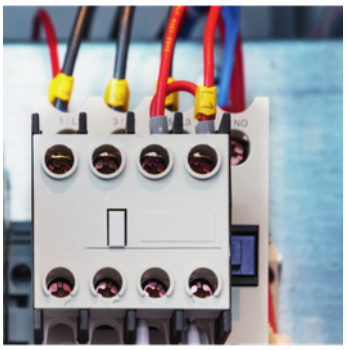
Acoustic Gearbox Monitoring

- Faulty gearboxes produce noise due to wear, which can be detected by the dsound®-sensor and used to trigger an error message or a machine shutdown



Acoustic Production Monitoring of Connectors

- Inspection of the locking sound of the contacts inside the connector case to ensure proper operation



Acoustic Functional Testing of Relays

- A faulty relay emits a noise at a specific frequency, which can be detected by the dsound®-sensor when the anchor fails to respond correctly



Acoustic Monitoring of Agricultural Machinery

- Use of the dsound®-sensorfor Equipment Monitoring during sugar beet harvesting
- Continuous separation of sugar beets and stones for biogas plants

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