



Access Control Systems

Convenience with ACS

The modern lifestyle is becoming more and more dense and complex. People don't have enough time to think about what matters as they focus on a myriad of redundant tasks; such as locking doors, finding keys and connecting electronic devices.

In this area Continental Engineering Services GmbH (CES) offers individual customer solutions.

The extensive know-how and creativity of our engineers, as well as access to Continental's entire technology portfolio, provides a unique starting position for our development.

That is the aim of our Access Control Systems.

Their purpose is to turn the car into a convenient environment. These systems act like a personal valet: opening your doors, locking the car, connecting your car and alleviating the engine's start.

Immobilizer



Description:

Inductive data transmission between immobilizer and transponder at 125 kHz.
Data coding/decoding and data transmission to engine management are integrated into one module.

Integrated architecture:

- › Antenna
- › Transponder interface and control unit integrated into one ECU
- › Transceiver architecture available

Description:

- › Continental is the worldwide market leader in immobilization systems
- › Checks the identity of the car key at start via communication to transponder (read/write and crypto protocol)
- › Releases engine start by coded communication to engine management and other peripherals (e.g. starter relays)

Receiver Control Module - RXM

Description:

Remote Keyless Entry (RKE) and vehicle immobilizer
Passive Start and Entry (PASE) radio frequency (RF) reception
as well as Tire Guard (tire pressure monitoring) RF reception
are additional options.

Combines immobilizer and RKE circuits onto one printed
circuit board.

Benefits:

- › Cost and packaging optimized solutions for immobilizer
and RKE through highly integrated architecture
- › Simplifies programming & synchronizing of "rolling codes"
between key and module

Features:

- › Inductive data exchange at 125 kHz for transponder
communication
- › Communication on worldwide released ISM frequencies
for RKE, PASE and Tire Guard
- › Controls ASK/FSK receiver operating modes

Gateway FOB

Description:

The vehicle communicates with the ID key over the inductive
low-frequency (LF)-interface or over a bi directional RF link.

The NFC interface enables the communication between the
ID key and a smart phone or a PC.

Benefits:

- › Security: challenge response cryptology and replacement
of manual PIN for payment actions
- › Comfort: no need for service provider specific smart card
and multi-secret key ability
- › Transactions are visible on vehicle key display or vehicle
instrument panel

Features:

- › Display status information on mobile devices
- › Car finder function
- › Remote vehicle diagnosis or quick diagnosis in the garage
- › Personalization and authentication (via cell phone or PC)
- › Payment function

