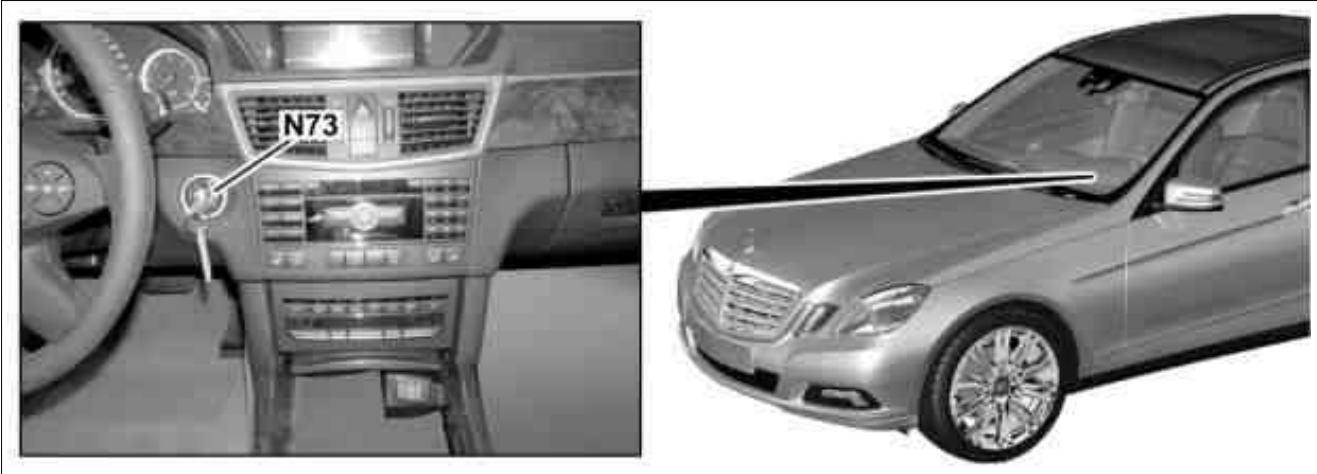


Document title Component description for the electronic ignition lock control unit

Document number gf8057p6001fl

MODEL 212

N73 Electronic ignition switch control unit



P80.57-2192-04

Location

The electronic ignition lock control unit is located on the right, next to the steering column.

Task

The electronic ignition lock control unit has the following tasks:

- Reading in of signals

Reading in of signals

The input factors are read in via the following connections:

- Direct line
- Interior CAN (CAN B)
- Chassis CAN (CAN E) (up to 28.02.2013) or chassis CAN 1 (CAN E1) (as of 01.03.2013)

Direct line

The following signals are read in via a direct line:

- Terminal 30

- Evaluation of input factors
- Controlling functions
- Output of signals
- Power supply for transmitter key (A8/1)
- Interface to KEYLESS-GO control unit (N69/5) (with CODE 889 (Keyless Go))

- Circuit 30 (emergency battery supply)
- Status of left front door lock (A85)

Interior CAN

The signals are read in by the electronic ignition lock control unit via the interior CAN.

The functions that use these signals are described in the individual function descriptions (see block diagram or function schematic).

Chassis CAN (up to 28.02.2013) or chassis CAN 1 (as of 01.03.2013)

The signals are read in by the electronic ignition lock control unit via the chassis CAN (up to 28.02.2013) or chassis CAN 1 (as of 01.03.2013).

The functions that use these signals are described in the individual function descriptions (see block diagram or function schematic).

Evaluation of input factors

The input factors that have been read in are evaluated by the integrated microprocessor and the relevant components are then actuated.

- Drive authorization system stage 4 (DAS 4) (as of 01.03.2013)
- Shift lock (transmission 722, 724, 725)
- Encrypted data exchange according to hash method for key identification
- 15CRotation-angle dependent activation of individual circuits (circuit , 15R, 15, circuit 15X and circuit 50)

Interior CAN

The signals are transmitted to the electronic ignition lock control unit via the interior CAN.

The functions that use these signals are described in the individual function descriptions (see block diagram or function schematic).

Chassis CAN (up to 28.02.2013) or chassis CAN 1 (as of 01.03.2013)

The signals are read in by the electronic ignition lock control unit via the chassis CAN (up to 28.02.2013) or chassis CAN 1 (as of 01.03.2013).

The functions that use these signals are described in the individual function descriptions (see block diagram or function schematic).

Power supply for transmitter key

When the transmitter key is inserted into the electronic ignition lock control unit, it switches on the inductive power transmission for power supply to the transmitter key.

Interface to KEYLESS-GO control unit (with code (889) KEYLESS-GO)

The electronic ignition lock control unit forms the interface to the KEYLESS-GO control unit via the interior CAN for the KEYLESS-GO access and KEYLESS-GO operation. The KEYLESS-GO start/stop button (S2/3) inserted into the key opening, is read in directly by the electronic ignition lock control unit.

Controlling functions

The electronic ignition lock control unit actuates the following functions:

- Central locking (ZV)
- Convenience feature (CF)
- Drive authorization system stage 3 (DAS 3) (up to 28.02.2013)

Output of signals

The signals are issued over the following connections:

- Direct line (except transmission 722.9, 724, 725)
- Interior CAN
- Chassis CAN (up to 28.02.2013) or chassis CAN 1 (as of 01.03.2013)

Direct line (except transmission 722.9, 724, 725)

The electronic ignition lock control unit communicates via a bi-directional serial data line with the electric steering lock control unit (N26/5).

	Electric wiring diagram for electronic ignition lock control unit		PE54.21-P-2104-97DAA
--	---	--	----------------------