

SWITCH SOLUTIONS FOR ELECTRIC VEHICLE PLUGS

Electrical Vehicle Plugs

The electrical vehicles (EV) are now part of our life and charging is a simple task – you simply plug in/out and go.

Similar to phone charging cables, car charging cables tend to have two connectors, one that plugs into the vehicle socket and the other into the charge point itself. But depending on the current, the charging speed or your location, the interface to charge your car is different.

Fortunately, standards are regulating the interfaces, and, even if it will evolve in the coming future, maybe we will reach a common standard for all cars.



EV Charging Plugs – Functions

Plug switch

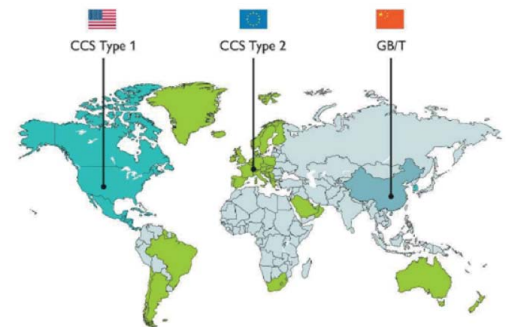
Used to detect locking and unlocking when connected to the commercial grid, indoor and outdoor.

There are 3 standards for these plugs:

- IEC 62196-2 (CCS Type 2)
- GB/T 20234-2
- SAE J1772 (CCS Type 1)

To fit the requirements, switch solutions need to offer:

- IP67
- SPST NO / SPST NC / SPDT options
- Optional integrated resistors
- Wire connection option



* Only GB and SAE types define the use of a switch and resistors

AUTOMOTIVE SOLUTIONS

Tactile

KSC

- IP67 with life up to 2 million cycles
- Detect and SPDT versions
- Different sounds and haptics available



KSC

KSR

- NC and detect versions available



KSR

KSJ

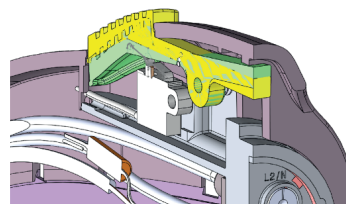
- Multi-directional actuator
- THT switch for side and top actuation
- Detect version available



KSJ

Purpose Built Developments

- New combination of existing components to reach your specific mix of force, travel, size and sound
- Snap solutions can be customized to fit the trigger mechanism and integrate optional resistors



Snap

All our products can be offered in SPST NO, SPST NC or SPDT configuration

ZMS & ZMSM

- IP68
- Compact size with long electrical life
- Specific lever on demand



ZMS



ZMSM

LCS

- IP67
- Wide variety of levers and actuators
- Long life and high electrical capacity



LCS

ZMW

- IP67 (Except terminal part. Fully IP67 on potted wire versions.)
- Up to 3 mm silent stroke
- Lever option



ZMW

Contact C&K to learn how we can help you with your next design challenge.
C&K - Trusted Brand in Switch Design with a focus on Innovation and Quality

For enquiries, please contact your local C&K representative or send us an email at:
automotive@ckswitches.com