

Instant EV & PHEV Emergency Immobilizer Plug

Fast, safe, and non-destructive vehicle stabilization
for first responders

Essential Safety Gear for
First Responders & Authorities:

- **Fire & Rescue Services:** Instant immobilization during extrication and firefighting.
- **Police & First Responders:** Police officers are often first at the crash scene. Secures the vehicle before heavy rescue units arrive.
- **Emergency Medical Services (EMS):** Protects paramedics entering the vehicle's danger zone.
- **Governments & Fleet Managers:** Modernizing emergency infrastructure for safe electric mobility.

The e:car IZS connector is intended exclusively for simulating the charging of electric vehicles and transport equipment equipped with a Type 2 socket and supporting the IEC 62196-1 and IEC 61851-1 standards.



The Problem

After an accident, an EV's high-voltage battery often stays active. Electric motors are silent—a jammed accelerator, an unconscious driver, or a wiring short circuit can cause the vehicle to launch unexpectedly, risking the lives of responders.

The Solution: e:car IZS

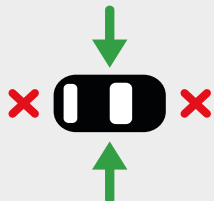
Insert the e:car IZS plug directly into the vehicle's Type 2 charging port. The car interprets this as a charging session and automatically disables its powertrain, engages 'Park' mode, and activates the electronic parking brake.



- ✚ **Supported by International EV Protocols** (NHTSA, NFPA, ISO 17840): Global standards demand immediate EV immobilization before rescue work starts.
- ✚ **Fully Standardized:** Built to IEC 62196-1 (Type 2) and IEC 61851-1 standards.
- ✚ **Field-Proven:** Already officially deployed and actively used by Czech Professional Fire Brigades (HZS ČR).



1 Vehicle at risk of uncontrolled movement



Keep people out of the front and rear collision paths.

Why this is right: Immediately protects responders from unexpected vehicle launch before touching the car.

2 Inserting the e:car IZS connector into the charging port



Plugs in within seconds using standard charging logic.

Why this is right: Leverages the OEM vehicle safety system - no cutting wires, no tools, no specialized training needed.

3 Vehicle immobilization



Carry out rescue/extrication safely.

Why this is right: Keeps the vehicle locked during the entire operation. Reusable for infinite rescue missions.

4 Removing the e:car IZS connector from the charging port



Remove plug when finished.

Put the connector back into the packaging for next use. The connector is **reusable**, zero-maintenance emergency tool.

Producer

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