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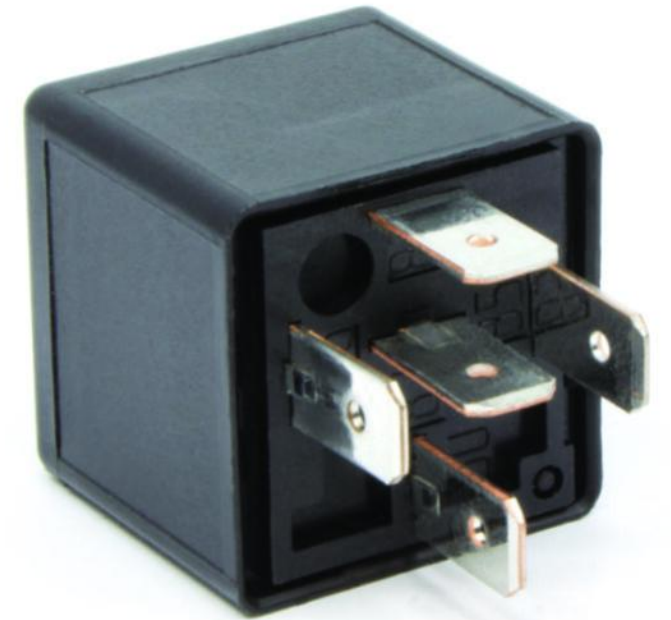
UDS Trigger Relay Guide

Overview

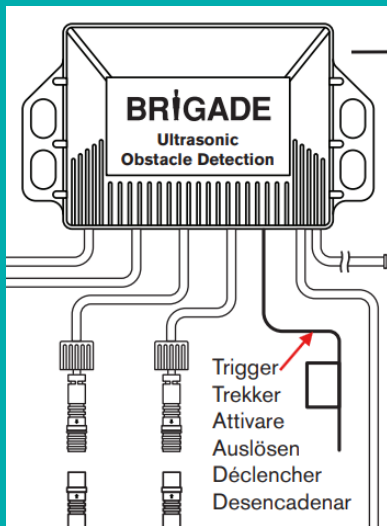
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This guide is designed to explain:

- When is a diode protected relay needed?
- Why is a diode protected relay needed?
- How to wire a diode protected relay correctly in your system?



When is a diode protected relay needed?



- A diode protected relay is a requirement when using the (SWITCHED GROUND) trigger wire from the ECU. This is an Optional connection used to operate auxiliary devices such as beacons or external alarms through a relay by providing a switched ground.
- Note, ground trigger is only active during detection (not on ECU activation).
- If you do not require this feature, then this wire can be left disconnected and isolated.

Why a diode protected relay is needed.

When operating auxiliary devices such as beacons or external alarms using the (SWITCHED GROUND) trigger wire from the ECU, it is imperative that a diode protected relay **MUST** be installed.

This is to protect from residual voltage that can flow from the relay into the ECU causing it to fail.

Note, 12v or 24v should be chosen depending on your application.



OPTIONAL EXTRA

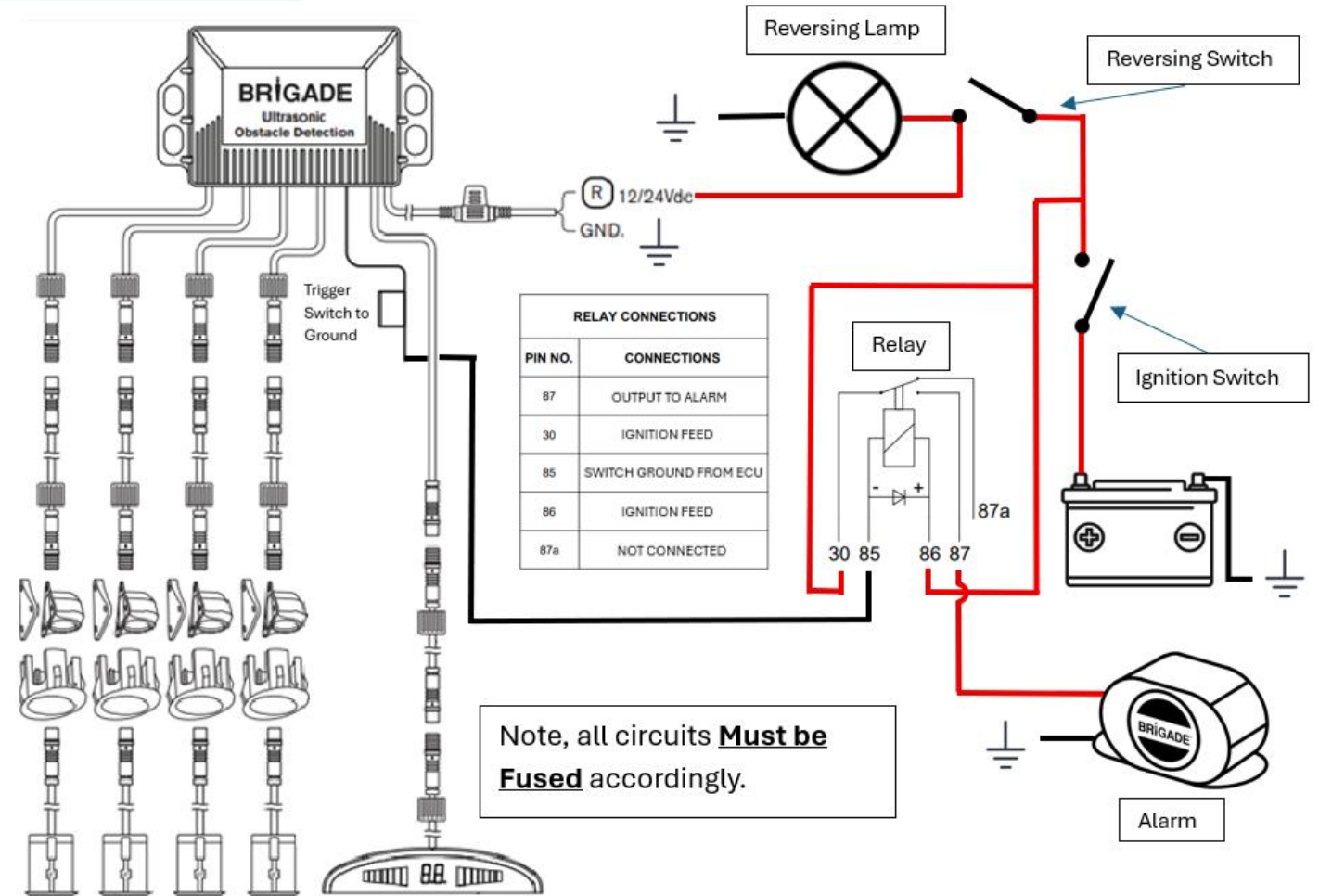
UDS-RELAY-24	Trigger-out diode protected relay 24Vdc	4215
UDS-RELAY-12	Trigger-out diode protected relay 12Vdc To power a device switched by the output trigger	4216

Wiring Diagram

This Wiring Diagram is for illustration purpose only.

Relay Pin Confirmation

- Pins 86 & 30 will need to be connected to an ignition live.
- Pin 85 **must** be connected to the (SWITCHED GROUND) trigger on the ECU.
- Pin 87 will need to be connected to the auxiliary device.



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