

RCT485 SMART LOGIC RELAY

The relay's function

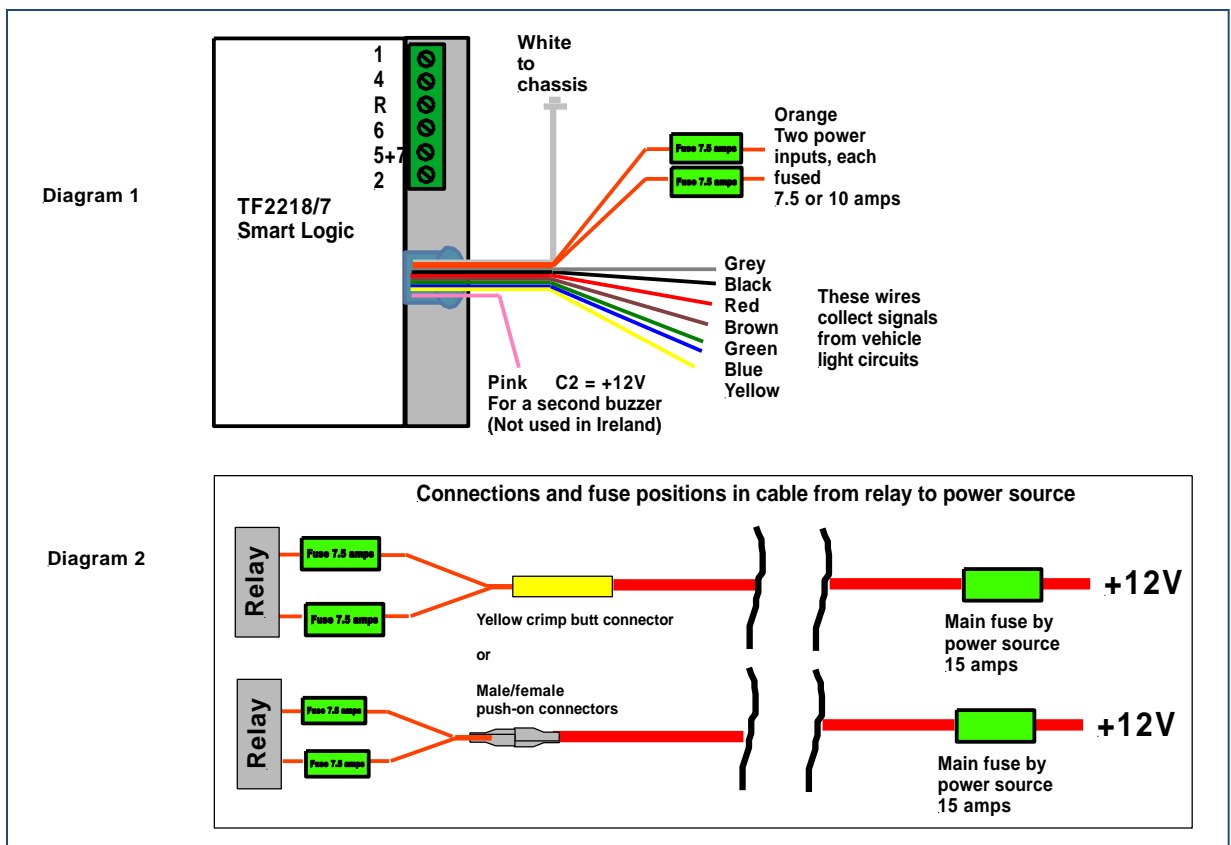
This relay is designed to overcome the problems of fitting towbar electrics to vehicles with bulb failure warning devices and low or mixed voltage wiring systems (Canbus/Multiplex) fitted to many newer vehicles.

When wired as below the smart logic relay will draw its power directly from the vehicle's battery and switched by the relays.

It draws less than 0.1 amps from the vehicle's circuits. This level of current is not detected by bulb failure warning devices in the vehicle.

The smart logic relay comes complete with a built in indicator warning buzzer, an audible warning device is mandatory by law.

The relay may also be referred to as Canbus, Multiplex or Smart relay.



Fitting your smart logic relay

1. Route your power source cable(s) from the boot to the power source and fit fuse holders in line in the cables, as shown in diagram 2. Do not insert a fuse yet

2. Follow the instructions in **Chart A** and connect your 7-core cable, your relay and the appropriate wires in the vehicle loom.

<i>Chart A: Wiring the relay(s)</i>						<i>Fuse 2 x 7.5amp</i>
Socket pin No.	7 core cable colour	to	Relay terminal number	SuperSplice number/wire colour	to	Vehicle circuit
1	Yellow		1	1 - Yellow		LH flasher
2	Blue		2	2 - Blue		Fog lamp**
3	White		-	None - White		Chassis earth
4	Green		4	4 - Green		RH flasher
5	Brown*		5+7*	5 - Brown		RH tail light *
6	Red		6	6 - Red		Brake lights**
7	Black*		5+7*	7 - Black		LH tail lights*
12S Pin 1	Aux Yellow		R	Grey wire		Reverse
-	-		+12V (both)	-		Power +12V
			+12V (both)	-		Power +12V
			-	Pink		Extra C2 switch (positive)

* Connect thin signal wires black and brown to both the car's side light circuits, black(LH) and brown (RH). Connect both black and brown of the 7-core to Terminal 5+7.

** DUAL LAMP FUNCTION: If the stop/tail or fog/tail share a common wire, do not connect either of the sidelight signal wires (black or brown) from the relay, to the car. The relay will interpret the signal on the brake signal wire (red) or fog signal wire (blue) and operate the lights, including the side lights, correctly

3. Connect the trailer reverse light wire to terminal R.

4. Connect the grey wire to the car's reverse circuit.

5. Connect your power cable to the battery and connect a test board. Insert the fuses and test the installation by turning the car lights on and off and observing the lights on the test board.