

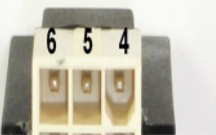
AC-ER70

the electronic power relay



The electronic power relay AC-ER70 is suitable for all vehicles with 12 V or 24 V wiring system voltage. Triggered by a positive control signal or a ground signal, the AC-ER70 can switch a rated load of up to 70 W and a pulse load of up to 90 W.

Due to the very low signal current needed by the AC-ER70, it is possible to take this from a controlled circuit (e. g.: no malfunction message on the dashboard when connecting to a circuit with bulb defect detection).

picture	pin	name	colour of wire	I/O	note
 <p>Pin assignment. View to the plug socket of the relay.</p>	1	ground	black	input	vehicle ground
	2	ground	-	-	
	3	input for positive control signal	white	input	a positive control signal must have a voltage of min. 5 V and can have up to Vcc (supply voltage). (+12 V respectively +24 V)
	4	power supply (Vcc) +124 V or +24 V	red	input	the power supply should be fused in following rates: +12 V systems: 10 A +24 V systems. 5 A
	5	switched power output	yellow-red	output	maximum load*) permanent: 70 W, approx. short-time: 90 W
	6	input for ground signal	yellow	input	
	standby current: < 0,1 mA!!				

*) A permanent or short-time overload can destroy the relay. If a higher load is needed, a solenoid relay can be switched by the AC-ER70.

The relay can be switched by a positive control signal (input pin 3) or by a ground signal (input pin 6). Both inputs can be used independently of each other and may be present at the same time. By presence of at least one of the signals, the power output (output pin5) is on.

No additional external elements are required. The electronic power relay is protected by a recovery diode for inductive loads and a solenoid relay can be connected directly.

Driving loads with a supply voltage below 5 Vdc may damage the device!