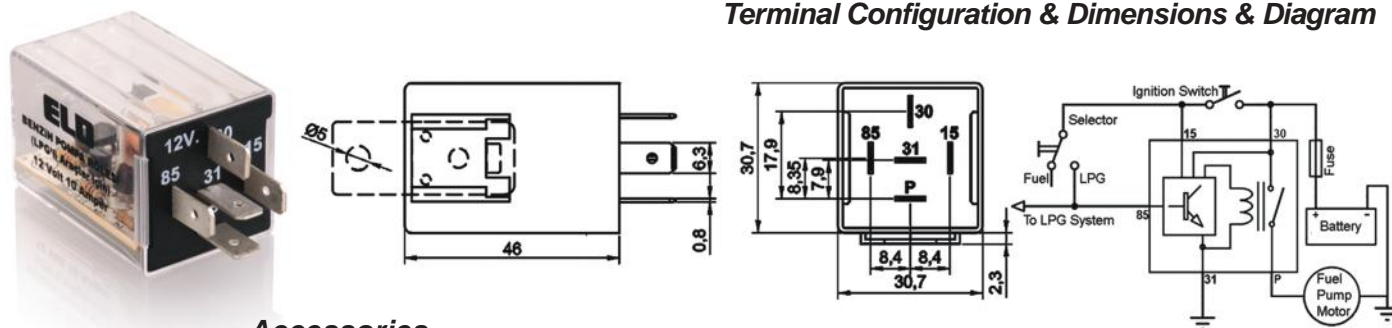


LPG - Fuel Pump Relay - w/ Time Adjustment

Product Code **201.009.001 - 12V** **201.009.003 - 12V w/ Injection Cooling**
 201.009.002 - 24V **201.009.004 - 24V w/ Injection Cooling**

Terminal Configuration & Dimensions & Diagram



Accessories

- 207.150.251 Socket – 5 Terminals, 5 Cables - Black (Standard cable length 20 cm & cable cross section 1,50 mm²)*
- 207.100.003 Socket – 5 Terminals – Black & Blue/ Pack of 2
- 207.100.001 Socket – 5 Terminals – Black
- 207.100.002 Socket – 5 Terminals – Blue

* Indicates cross section of cables carrying higher current. Please refer to **Socket Product Group** pages for different alternatives.

Technical Data

	201.009.001	201.009.002	201.009.003	201.009.004
Nominal Voltage	12V	24V	12V	24V
Operating Voltage	8,0 - 16,0Vdc	18,0 - 30,0Vdc	8,0 - 16,0Vdc	18,0 - 30,0Vdc
Rated Contact Current	10A		10A	
Load Power	140W	280W	140W	280W
Injection Cooling Period on LPG	Only in Injection Cooling Model		1 minute every 20 minutes	
Initial Working Time as Switched to LPG	240 - 120 - 30 sec.		240 - 120 - 30 sec.	
Dielectric Strength	>1000Vdc		>1000Vdc	
Vibration	20-200Hz,5g;>10µs		20-200Hz,5g;>10µs	
Mechanical Shock	>10g, 11ms>10µs		>10g, 11ms>10µs	
IP Rating	IP54 DIN IEC60529		IP54 DIN IEC60529	
Terminals	6,3 x 0,8mm		6,3 x 0,8mm	
Terminals / Plating	Fe/E-Sn		Fe/E-Sn	
Bracket / Plating	Fe/E-Zn		Fe/E-Zn	
Ambient Temperature	- 40 / + 80 °C		- 40 / + 80 °C	

* May be changed with the bridge position

Product Details

Fuel pump which is usually located in the fuel tank needs to be cooled during operation. The cooling of the pump is achieved by the fuel in the tank. For vehicles that operate on LPG, if the LPG tank is installed afterwards, the fuel tank can stay empty for a long period of time. However, when the vehicle is running on LPG, and fuel pump is in operation it cannot be cooled and it easily overheats. ELO LPG - Fuel Pump Relay allows the fuel pump to start only when it is necessary to prevent failures due to over-heating.

ELO LPG - Fuel Pump Relay provides positive output to P (Pump) terminal as soon as the ignition is turned on. The pump is allowed to operate as long as the vehicle is running on fuel. When switched to LPG, the pump is turned-off after a short period of time. If switched back to fuel, the relay actuates the pump immediately.

The main difference in ELO LPG - Fuel Pump Relay w/ Injection Cooling is when the engine is running on LPG for extensive periods, the relay actuates the fuel pump for 1 minute for every 20 minutes in order to achieve pressure in the fuel line, which subsequently helps with the cooling of the injections. The actuation of the fuel pump is automatic in changes from LPG to fuel.

3 different time options of 30, 120 and 240 seconds are available to choose from to select the amount of time the fuel pump stays in operation when switched to LPG from fuel. The time selection is made through a bridge on the relay. Standard time adjustment by ELO is 240 seconds. In order to change to 120 seconds, the bridge is simply adjusted to pins labeled 2 and 3. If the bridge is discarded the time adjustment will be 30 seconds. Different time options are available upon request.

Notes

All measurements are in millimeters.

