Intake manifold pressure sensor with integrated intake air temperature sensor | HELLA

General

The intake manifold pressure sensor measures the intake manifold vacuum that exists in the intake manifold after the throttle. The measured values of the intake manifold pressure sensor and the intake air temperature sensor are required to calculate the intake air mass.

Depending on the injection system, the intake manifold pressure sensor and the intake air temperature sensor may be installed together as one unit. The intake manifold pressure sensor may be installed directly into the intake manifold or attached in the vicinity.

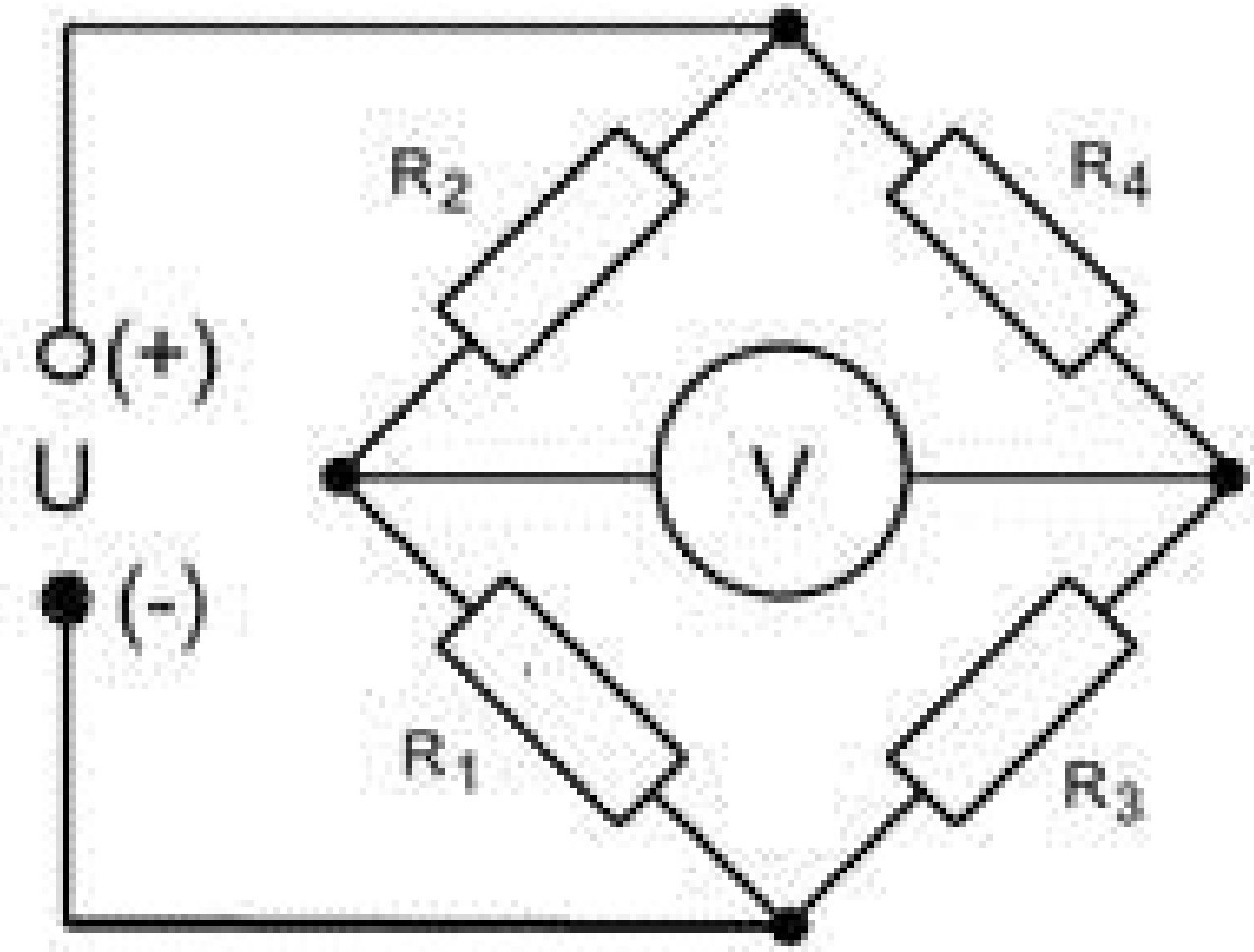


Structure and function

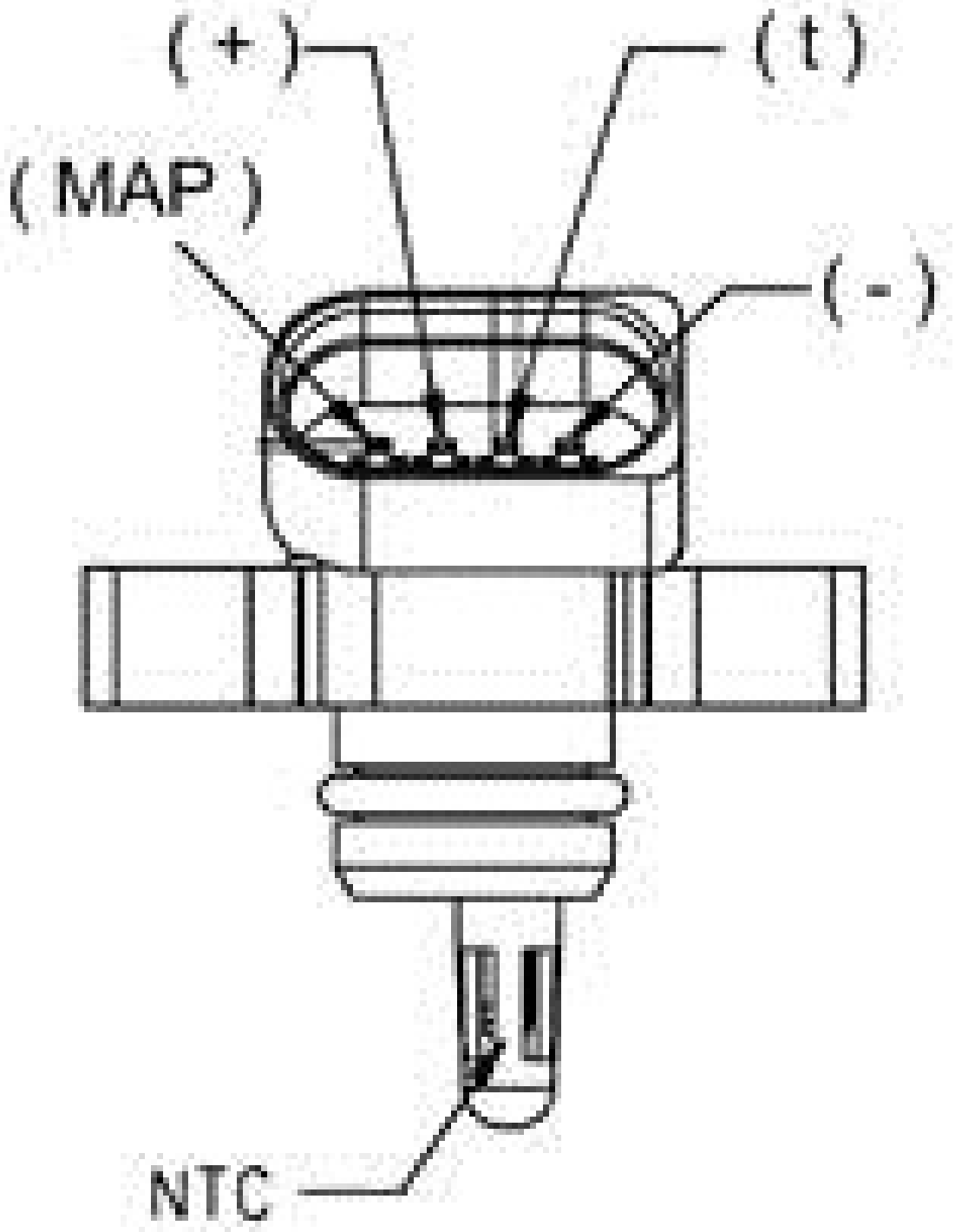
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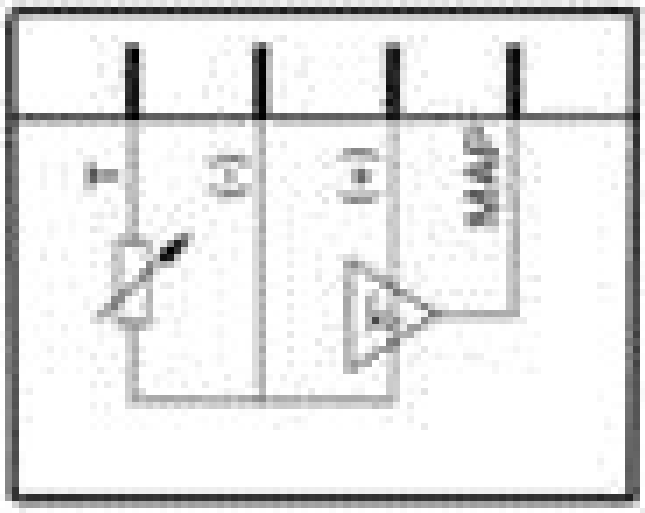
Wiring diagram

Depending on the injection system, the intake manifold pressure sensor and the intake air temperature sensor may be installed together as one unit. The intake manifold pressure sensor may be installed directly into the intake manifold or attached in the vicinity.



Although initially there appears to be no difference from the conventional intake manifold pressure sensor, a closer look at the connector reveals an additional contact in the housing. In the intake manifold pressure sensor 6PP 009 400-481 depicted in the illustration here, this contact is identified as (t). The NTC installed in the sensor, which is used for monitoring the temperature, is connected with the engine control unit via the cable harness.


(+)
(t)
(MAP)
(-)
NTC


MAP

Wiring diagram