Closed Stock Company "AMD-Pilyugin Center-Holding" has developed the braking DECELERATION SENSOR DT-1 to illuminate additional stop lamps when a vehicle is decelerated by its service braking system or another means.

The DT-1 is designed to be insensitive to the condition and cutting of a road. It operates on the principle of two pendulums with different damping ratios. The decelerate signal is generated by the photosensor and processed by built-in electronic circuit which turns on and off the relay in the power supply line of additional stop lamps.

Patented technical decisions used in the DT-1 ensure high sensitivity, stable operating threshold specified for given vehicle type, and invariance to grades, bends and condition of a road. As a result, the use of the DT-1 increases clearness for other road-users to the rear of the vehicle.

The DT-1 has been tested on the test roads of the Research Center for Testing and Refining of Automotive Vehicles (NICIAMT), Dmitrov town, Russia.

Specifications

Ultimate sensitivity – 0,2 m/s²
Operating threshold* – 0,2...2,00 m/s²
Stop lamps illumination delay – 0,2...2,00 s
Stop lamps switching-off delay – 3...4,00 s
Overall dimensions – Ø100x75 mm
Mass – not more than 380 g

* to be adjusted while manufacture depending on vehicle type and ECE Regulations currently in force.