KLAM - ELECTRO MAGNETIC RETARDER

The NEW electronic retarder control system called ECS has many features and benefits to suite your requirements! It will take the use of your KLAM Retarder to a new experience, taking away some of the “fear factors” of electro magnetic retarders.

**BENEFITS!**

- The retarder brake torque is being applied proportional to the driveline by using all coils of the retarder simultaneously. The lifespan of the stator will improve dramatically; no more overheating of the coils, no more shocking feeling if the brake power is applied, no more "singing" of the driveline components.

- The ECS Retarder Control System will save up to 50% of the current consumption by using the pulse width modulation (PWM), saving batteries and alternator from wear.

- The vehicle electrical system will be monitored and protect against over - and under voltage caused by the electro magnetic retarder or other electric consumers.

- The ECS system interfaces with ABS and ESP by using the “ramp up” and programmable time delay after an ABS event has taken place.

- Functions like low speed switch off, brake cruise (cruise control function), temperature control and function control lights are standard.

- The ECS Retarder Control System can be programmed and adjusted for your needs and the vehicle / retarder application. This will allow you to adjust the retarder system to the requirements of the customer.

- The ECS Retarder Control System has a diagnostic tool that allows the driver / owner to locate a failure and report. Failure or abuse are stored in the ECM of the system.

Tel. (973) 482-3462 or 800-852-5445 Fax (973) 482-2788

KLAM America Corp. is a division of Industrias Zelu, S.L. the electro magnetic retarder manufacturer from Pamplona (Navarra) in Spain.
FEATURES!

How about down hill cruise control?

Set the cruise, stay at that speed. This allows the driver to select any speed downhill and the ECS electronics will control the KLAM Retarder to maintain the speed and not let the vehicle inertia or weight overtakes the selected speed. Cruise to keep you going slow.

Want low speed shut off capability?

Now at no additional cost. No separate module, but direct integration of the speedometer signal to provide the KLAM Retarder to switch off, if the vehicle is not moving.

Need help with RETARDER diagnostics?

It’s built right in. PDA or computer controlled. By simple activation, the driver or mechanic is able to analyze the KLAM Retarder functions without taking it on the road. Makes trouble-shooting easy.

DO YOU HAVE SAFETY CONCERNS?

Does an ABS event worry you?

Integrated ABS controls are now standard. Rather than KLAM Retarder strength returning to its preset position, now the integrated ABS interface will judge the ABS event as it takes place, and will enforce the brake torque (after the ABS event) gradually (time delayed), in order not to initiate a new ABS event.
DO YOU WANT TO PROTECT YOUR INVESTMENT?

Programmable software. Reduction of failures, (less cables) therefore less installation time. No more moving parts (like relay switch) – No maintenance !!

Heat / Temperature protection. The ECS has an internal temperature-monitoring feature to reduce brake torque if physical limits are reached.

The Pulse Width Modulation The PWM system will allow you to use all coils simultaneously and proportionally, (no more stages); and will reduce the current consumption up to 50%. PWM will reduce the temperature in the coils and increase the durability and lifespan of the retarder stator. This will give benefits to batteries and alternator specs.

PWM reduces amp. draw 50%. Same torque and power as before.

Under – Over Voltage Protection. It will monitor the battery and net voltage, if the power drops due to failure of the alternator or battery, the ECS system will reduce brake torque or shut down the RETARDER function. This will increase the life of the batteries and prevent “draining” of electrical power.

WHAT YOU ARE USED TO!

- Best service - and installation facility in the State !

- 24 months warranty after installation or try our extended warranty program.

- Ask us for a quotation and we will show you !

Call Toll Free 1 (800) 852 5445
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