



The Obstacle Proximity Control (OPC) system by Transfluid uses distance sensors on vehicle bumpers to control vehicle speed and brakes to avoid collisions with obstacles, the company said.

AVOIDING OBSTACLES

Transfluid system works with transmission to prevent collisions

Transfluid introduced its new Obstacle Proximity Control (OPC) system, which was designed specifically for the company's Rangermatic and Rev-ermatic powershift transmission families. The OPC system uses distance sensors mounted on the vehicle's front and rear bumpers and interfaces with the powershift transmission, providing operator-free and uncompromised speed and brake control, Transfluid said.

The company said that the OPC system automatically mandates extremely low speeds — inching — when the vehicle is in close proximity to any object, allowing the operator to concentrate on maneuvering and positioning. Several speed limits can be set by engaging and disengaging the transmission clutches during inching mode operation, Transfluid said.

If a collision is imminent, the OPC is designed to immediately react by putting the transmission in neutral and fully engaging the hydraulically operated brake to stop the vehicle and prevent accidents and injuries. When used with the multispeed Rangermatic transmission, the OPC fully controls gear shifting, providing the user the ease of an automatic transmission, Transfluid said.

At the heart of the system is the Transfluid MPCB controller with dedicated, programmable software, the company said. The MPCB has multiple e-stop and e-inch inputs engineered to be used in slowing or stopping the vehicle in other instances, such as if the operator seat is vacant or a machine implement is operating during transportation. The MPCB also provides accountability, Transfluid said, by recording all OPC events, which can be reviewed to determine operator abuse and misuse.

The Transfluid OPC system is designed for use in off-highway applications, such as ground support equipment and indoor material handling vehicles. The system can be used for some marine applications, the company said — particularly limited-speed boats for special water sports and passenger ferries. It can also be used in railway vehicles in applications such as shunting locomotives or underground mine passenger transporters, Transfluid said. *dpi*

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