# Case Study: Subway Braking System


10 SERIES
PRESSURE SWITCH

Industry
TRANSPORTATION

## CHALLENGE:

Mass transit systems are part of the critical infrastructure for any city and therefore their reliable operation is of utmost importance. One of the critical components within the subway train structure is its hydraulic braking system.

A mass-transit system had problems with their subway braking system. The OEM supplied pressure switch that monitored the operation of the hydraulic braking system would freeze up and fail during winter. This led to delays and unexpected maintenance costs.

Working with the transit authority engineers, UE developed a solution that eliminated the winter freeze-up and the effect of vibration and shock from their braking system.

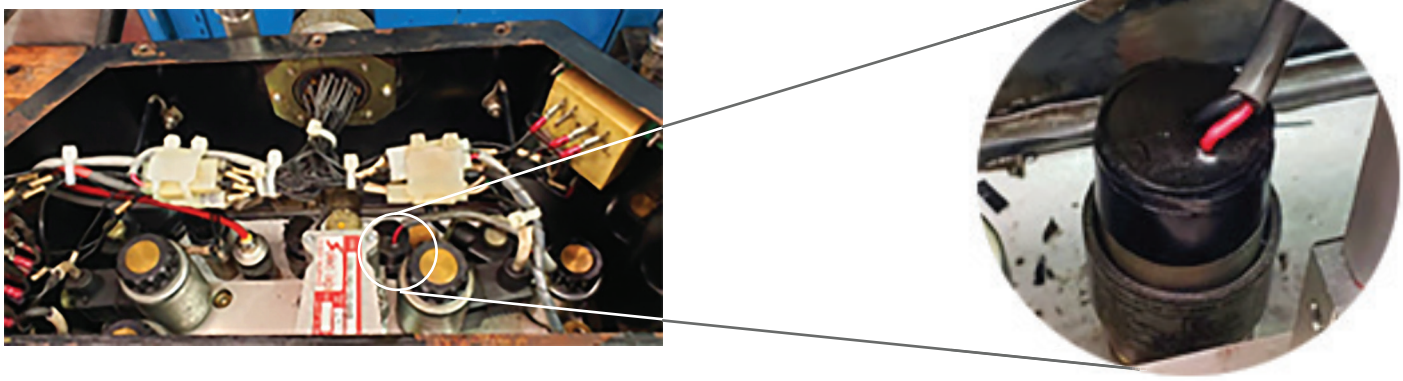
## SOLUTION:

UE's rugged 10 Series, was customized to solve the hydraulic brake problem caused by freezing temperatures. It was also able to safely operate under high vibration and shock conditions.

Extensive field testing over a couple of years proved that the brake system was operating reliably, eliminating the maintenance problems that they had with the original equipment.

In addition to eliminating unnecessary maintenance costs, the 10 Series also reduces regular maintenance costs.

The transit authority had a goal of 6 years for switch life and so far many switches have exceeded that goal. This reliability also provided a reduction in inventory.



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Reduced maintenance cost

Improved reliability