



Tech Tip

JANUARY 2026

Foundation RTU Locked Out Safety Device (LSD)



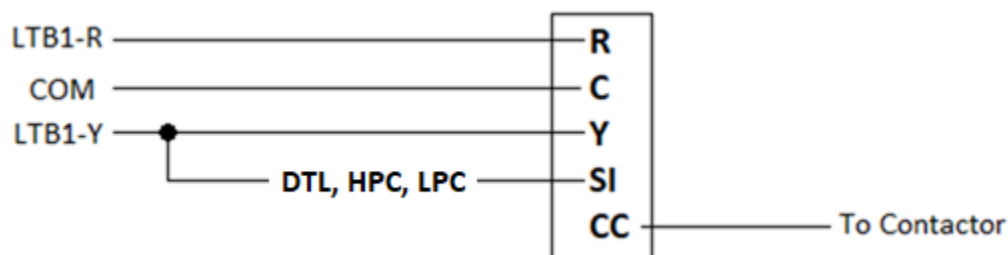
This device monitors compressor safety switch trips(DTL, HPC, LPC) to prevent short cycling. Four safety trips in 6 hours will require manual reset.

Problem: The compressor contactor will not pull in with 24Vac present at R, Y, and SI on the LSD. The fault LED Indicator on the Lockout Safety Device is not Flashing or Steady On.

We are receiving calls of repeated Lockouts and finding no operational safety concerns to justify after manual reset.

**Cause – 24vac present at R, Y & 0vac present at SI on LSD:
Could be delayed Free Cooling mode calls, High resistance in thermostat wiring, etc.**

This is a representation of the current Factory LSD wiring.

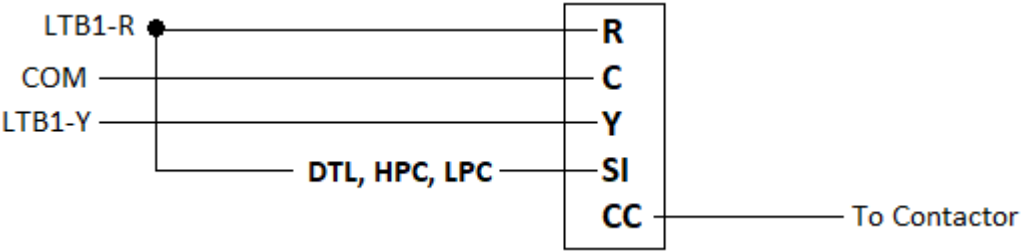


Field Service Representative Contact



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Change the LSD circuit wiring to this configuration and the contactor pulls in strong, even with high resistance in the field wiring between the unit and the thermostat.



By moving Safety Input circuit to R from Y, we are eliminating possible Free Cooling delay issues in economizers and potential high resistance in thermostat wire causing Lockouts.

For more Detail on this TIP, scan this QR Code:



Trane® Technician

Field Service Representative Contact

1-844-358-7263



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