

Using Presscon for Electric Defrost

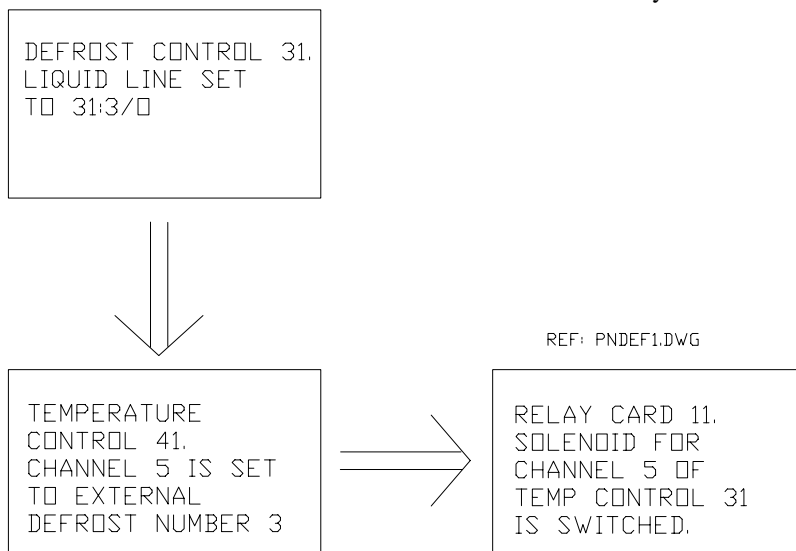
The Problem.

When a solenoid is controlled by a Temperature Control and needs to be shut down during defrost by a Defrost Control, it is not acceptable to program both controls to the same relay point (ie. 11:4/O). If you do this the Temperature Control may try and turn the relay on while the Defrost Control is turning it off, causing chattering and errant operation of the solenoid.

The Solution.

One solution is to use two relays and wire the solenoid via both relays in series. This is an easy fix but wasteful of resources.

The best solution is to use the external defrost channels built into the Temperature Control. These eight channels allow the Temperature Control to accept signals directly from a Defrost Control. The Temperature Control then switches the solenoid relay according to temperature and defrost status.



Temperature Control Programming.

The Temperature Control is programmed exactly as normal with the following addition; Each channel which requires electric defrost via a Defrost Control is programmed to one of the eight external defrost numbers. The actual external number is not important except to note that channels which share the same number will go onto defrost together.

The relay address and relay number of the solenoid are set in the Sensors & Relays part of programming as normal.

Defrost Programming

The Defrost Control gets programmed exactly as before except the Liquid line relay in the Sensors & Relays part of programming is set to the Temperature Control address and external defrost number instead of a relay address and number.

An Example.

Say we wish to defrost a solenoid which is controlled by Temperature Control number 41 and this channel has been programmed as external defrost number 3. All we do is set the liquid line output on the Defrost Control to 41:3/O. This and any other channels on Temperature Control 41 set as external defrost number 3 will then go into defrost with this Defrost Control.