



CONTROL SYSTEM FOR REDUNDANCY & LEAD/LAG

In applications where you require redundant systems to share the cooling requirements, ISC has developed a system that will toggle back and forth between the two units thereby giving them each equal operating time.

Additionally, this system provides for the situation where one unit becomes disabled. In this event, the second unit continues to provide the appropriate amount of cooling to your electrical enclosure while the disabled unit would be in alarm mode.

This system is intended for 100% redundancy *where failure is not an option.*

This is our alternating, or toggle system.

ALTERNATING CONTROL

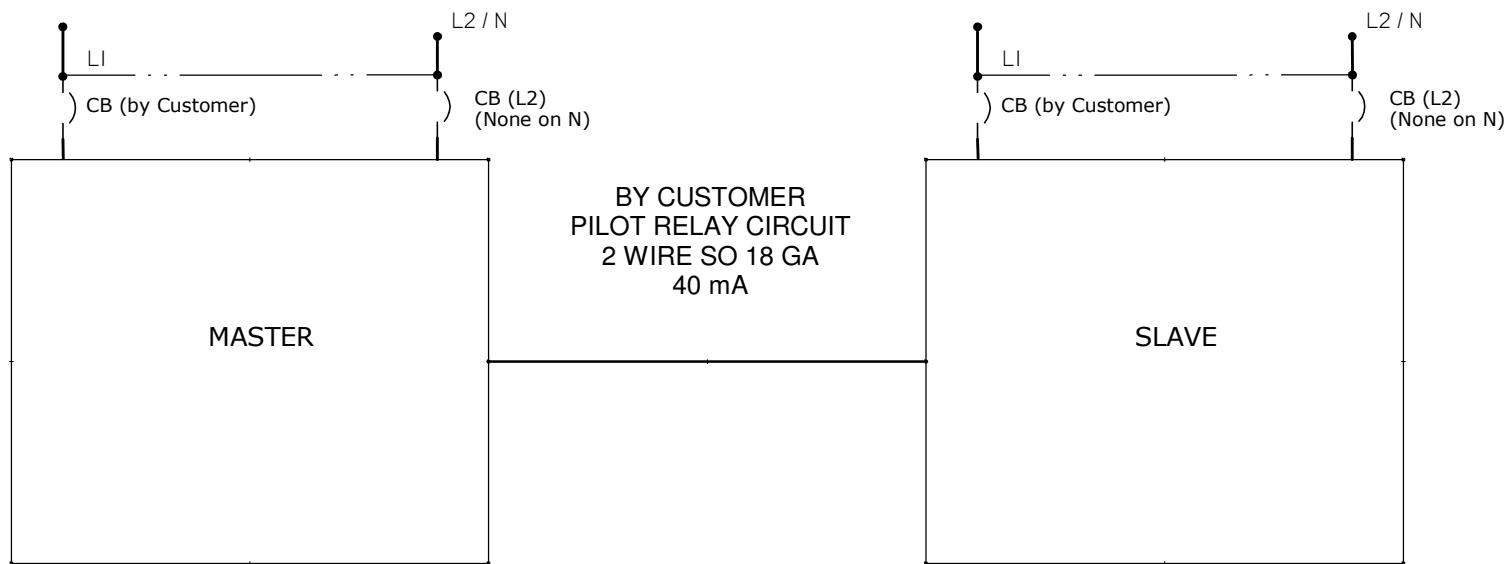
This control method is intended to provide cooling to a common enclosure by two (or more) air conditioners which alternate operation rather than share load. This provides 100% redundancy while balancing the run time on each unit

Two self contained air conditioners with independent dual stage thermostats will be connected with a toggle control so that the units will alternately share the cooling load. In the event of the failure of one unit, the toggle system will be deactivated and the cooling load will be switched to the remaining operational unit. A failure signal will be available to alert the customer that one unit has failed.

HIGH LIMIT

Each Thermostat has a high set point which is used as a failure alarm. On either high limit, that unit is switched out of the toggle control and cooling will be solely by the alternate air conditioner until the limit is manually reset.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



	NAME	DATE	
DRAWN	atittle	09/03/08	
CHECKED	dharmon	09/03/08	TITLE
ENG APPR			LAYOUT, TOGGLE SYSTEM REDUNDANT, ALTERNATING CONTROL OF TWO EQUAL SIZE A/C UNITS
MGR APPR			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±1° or 1 PL ±0.5° 2 PL ±0.02 3 PL ±0.010			SIZE B
			DWG NO 50049
			REV
FILE: 50049_Redundant Layout.dft			
SCALE:		WEIGHT:	SHEET 1 OF 1