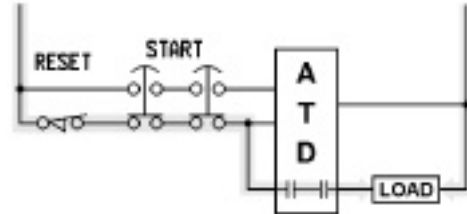


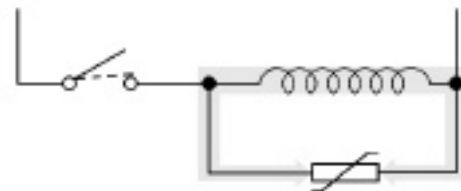
APPLICATION NOTES

HAND SWITCHES - The 3380 and 3381 series are designed to operate with mechanical hand switches only. The normally closed and normally open contact of each switch must be isolated and of the "break before make" type. The user must determine the compatibility and safety of the hand switches. These controls are not designed to be interfaced with electronic hand sensors (request information on series 4480 & 4481).

LOAD CIRCUIT - Whenever possible, the load should receive power through the start switches as shown to the right. In this circuit if either start switch or the reset switch is opened, the power to the load will be interrupted by the switch as well as the output relay contacts. This circuit will offer additional safety when de-energizing the load.



LOAD TRANSIENT DAMAGE - If the load is a solenoid, a motor, a relay coil or a transformer, it will have inductive properties. When a relay contact breaks the current to an inductor, a high voltage will result across the contact. This high voltage may damage the contacts when they begin to separate. Good transient suppression (placed across the load) can greatly reduce this damaging high voltage and increase operating life. Order Nolatron Part # 30165 - Load Suppressor



LIMITED ONE YEAR WARRANTY: Nolatron, Inc. warrants its products against defects in material and workmanship under normal and proper use for a period of one year from date of shipment. Nolatron's obligation under this warranty is limited to furnishing, without charge and at our discretion, either replacement or repair of any defective part. This warranty does not apply under the following conditions: (1) When the product has been operated at other than specified voltage or currents. (2) When the product has sustained contact damage due to improper load transient protection. (3) When the product has been subjected to abuse or has otherwise been tampered with. The foregoing warranty is exclusive and in lieu of all other warranties of quality whether written, oral or implied. Nolatron is not liable for damage or injury which may result from the use of these products.

WARNING: These anti-tiedown controls are not intended for use without adequate point of operation safety guards. It is the user's responsibility to assess all potential hazards when installing safety equipment. The user must see that these controls are properly installed, cared for and operated to meet all applicable local, national and OSHA codes and requirements. Failure to comply could result in serious bodily injury and/or property damage.