

How To Set Limits

Setting and connection of the limits:

Each unit's travel is controlled by two sets of limit switches. These are chain driven from the gearbox output shaft. One set (labelled "Travel") control the normal movement of the unit. The other set (Labelled "Absolute") are there as a backup to the travel limits in the event of a failure in the system. The Absolute limits should be set first to determine the absolute maximum range of travel that the unit is allowed to run. The travel limits should then be set within this range to limit the movement to the desired normal operating range.

In order to set the limits the two screws holding the yellow cover on should be undone and the cover removed. The large locking screw in the centre of the column should be loosened. The individual limits can now be set. If the unit is wired correctly (fan rotates anticlockwise when the "Open" button is pressed) the limit labelled "1" (lower cam) will control the "Open" movement and the limit labelled "2" (upper cam) will control the "Close" movement. (Note that "Open" and "Close" are determined by both motor rotation and also by the direction in which the cables are wound. In this explanation anticlockwise movement of the fan is assumed to cause the load to "Open").

Determine which direction the cam in the limit box rotates when the "Open" button is pressed and turn the screw labelled "1" so that the microswitch is hit by the cam when the load "opens" to the desired position. The lower limit "2" should be adjusted so that the microswitch is hit by the cam as the unit moves into position in the "Close" direction. After setting both limits the locking screw can then be tightened, the limits rechecked, and the cover replaced. Absolute limits should be set before Travel limits.

If in doubt contact Hall Stage

