

INSTALLATION INFORMATION

7174 Rudder Angle Feedback Unit

The 7174 rudder angle feedback unit is used in vessels to provide the rudder position feedback signal for Autopilot, Full follow up control systems and rudder angle indicators. Up to three potentiometers, three trim pots and four micro switches can be provided with the unit.

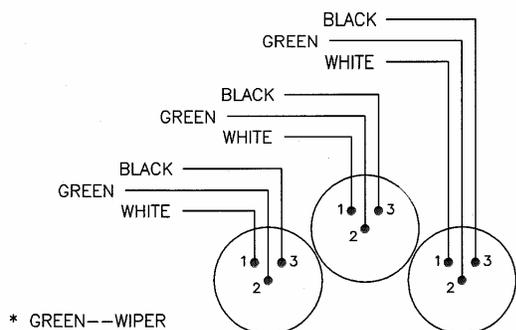


Fig. 1 Wiring diagram of potentiometers

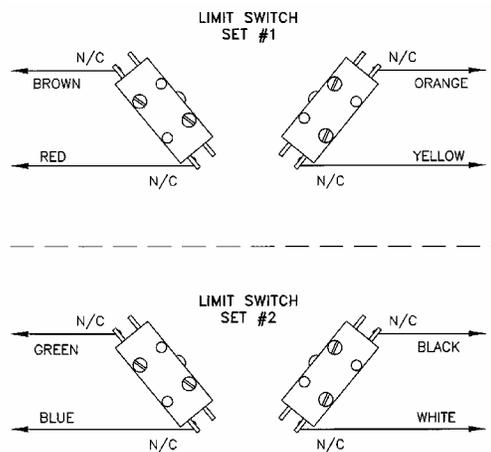


Fig. 2 Wiring diagram of micro switches

The lever on the 7174 feedback unit has a series of 5/16" (8 mm) holes at 5/8" (16 mm) intervals for connecting feedback linkage. The maximum travel of the lever is 44° on either side of travel. To get the maximum accuracy in performance, the unit is to be installed securely on a flat surface parallel to and level with the tiller.

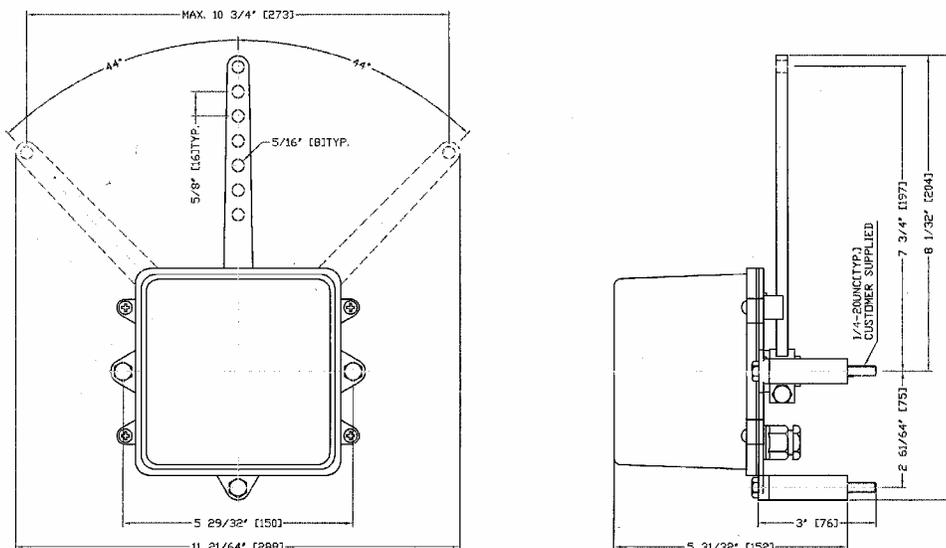


Diagram 3: Dimensions of 7174 rudder angle feedback unit

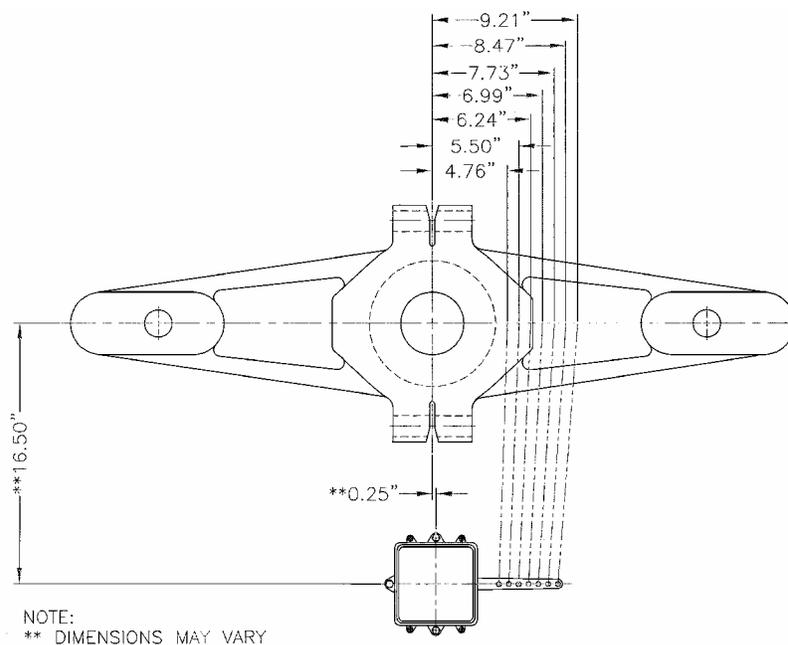


Diagram 4: Example of installation for rudder movement 35°-0-35°

1. Determine the length of the connecting linkage to be used according to space available for installation of the rudder angle feedback unit (model 7174). An example of the positions and locations of connection point are as shown in diagrams 3 and 4. The actual position will depend on factors such as available space and size of tiller. Ensure that there is no interference on either equipment throughout the full range of movement. For questions or help on other installation positions, please consult the dealer or Technical Support Department at Kobelt Manufacturing.
2. Secure the rudder angle feedback unit horizontally on a flat surface at a distance consistent with the length of the connecting link.
3. With the feedback unit lever in the centre position, secure the connecting link to the lever arm at the appropriate connection hole.
4. Secure the fasteners on both ends.
5. Ensure there is no obstruction in the movement of both tiller and feedback unit arms.
6. Calibrate the 7174 feedback unit for its full range of lever arm travel after installation.