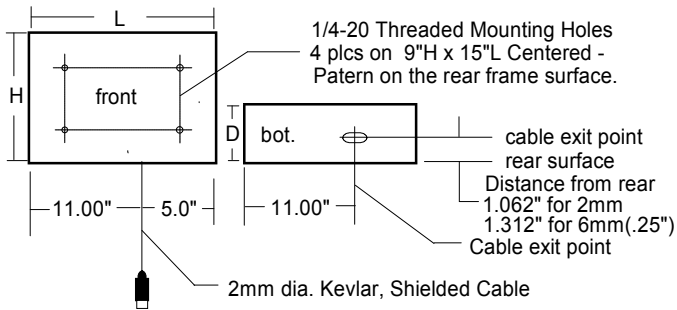


SRL-90 Servoreeler INSTALLATION and OPERATION

SERVOREELER SYSTEMS

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RJ-45 Pin Out

- 1- Down Sense
- 2- Down Control
- 3- Common
- 4- + 24 VDC
- 5- + 24 VDC
- 6- Common
- 7- Up Control
- 8- Up Sense

Housing Dimensions: H = 13.25" L = 16" D = 2.60"

CAUTION: Test mounting screws by hand before tightening, - threaded holes in aluminum frame are easily damaged.

MOUNTING: The SRL-90 is provided with (4) 1/4-20 threaded holes on a 9" x 15" grid on its rear surface. Prior to installing try the machine screws by hand to assure a proper fit. Screw length should be selected so that no more than a nominal one inch extends into the rear plate. The SRL-90 weighs Twenty One pounds all of these mounting holes should be utilized to achieve a stable and safe mounting of the mechanism.

CAUTION Professional care and judgement must be exercised when mounting equipment overhead. Mounting screws must engage a permanent, solid structural member or a metal bracket that is in turn securely attached to such a structure. Should mounting against a wood beam or surface be required, screws of adequate size may be employed from the inside, through the threaded holes into a load bearing structure; loosen the four cover screws about two turns and slip the cover up from the body of the reeler. Note, when mounting against a wood surface, all four holes must be used. **NOTE: To avoid any distortion of the mechanism; install extra washers as shims between the frame and mounting surface if required so that the center of the Servoreeler frame is elevated clear of any irregularities or high spots on the mounting surface. .**

Please note, the installer and the purchaser must assure that these devices do not pose a hazard to others, both during and after installation. Architectural or engineering guidance is highly recommended to help assure a safe installation that is consistent with the particular physical requirements of your project.

OPERATION: A linear regulated, 24 VDC source is required for system power. Common is connected to pins three (3) and six (6); positive (+24V) is connected to pins four (4) and five (5) of the RJ-45 connector. **Note:** The RJ-45 is organized in a symmetrical configuration. A 180 degree error in the orientation when installing a connector will simply result in reverse operation, i.e.; Up will be Down etc. **CAUTION: Never apply any external voltage to the Up or Down Sense terminals Pins 1 and 8, this may cause circuit damage.** The sense outputs are utilized for remote speed adjustment, logic Hold and remote indication of operating mode. If Cat-3 or 5 is employed, test before using! This large mechanism requires the use of shorter or larger gauge control/power cables to limit the voltage drop during full-load operation. **Confirm that the voltage at the mechanism - during operation does not drop below 20Vdc under all operating conditions.**

TEST RUNNING: CAUTION! The reeler is designed to operate in a vertical orientation, with the cable exit point facing down. In addition, a minimum payload weight of approximately one to two (1-2) ounces is required for proper down feeding of the cable. Should the reeler be operated in a horizontal orientation, too lightly loaded or with its cable impeded from down feeding freely; an internal spill sensor will stop the reeler. This sensor interlock is designed to prevent internal cable accumulation and jamming. **Please note that this is a back-up system, conditions causing its intervention should be avoided.** Normally this condition is not encountered after permanent installation.

SETTING the OPERATING STOP POINT: The IR sensor that controls the length of cable deployment is mounted on a track and is easily adjusted by loosening a finger screw and positioning the sensor to obtain the desired stopping point. To access this adjustment; loosen the four cover screws about two turns and slip the cover up from the body of the reeler. To the middle left of the center of the storage reel, you will see a track with a small wire connected module. This sensor module may be positioned as follows: The Servoreeler is shipped from our factory set to maximum deployment; with this sensor close to the storage reel hub. To reset, loosen the locking thumbscrew just enough to enable the sensor to be moved; sliding towards the rim of the reel will decrease payout length. Slide and tighten the sensor module to re-locate the sensor to a new position. Retract past stop position - then activate the down mode to test the new stop point; repeat until desired length is achieved. **NOTE:** This Operational stop position may be bypassed. Re-activating the down mode permits the microphone to be lowered incrementally to a lower position or to a service level where the microphone can be reached. **Take Care that obstacles are not struck at full cable deployment!**

SPECIFICATIONS: 2mm Cable capacity: nominally 100' (30m) .25" (6mm) Diameter - Multi-conductor Cable capacity: 34 feet
Payload: 2.2 Lbs. (1Kg) - Tested at 5 Lbs (2.27Kg) Mechanism weight: 21 Lbs. (9.5Kg) Operating voltage: 24Vdc @ 1 - 1.5A

Thank you for selecting our SRL-90 Servoreeler. Should you require any assistance or have any questions regarding its application or installation, please contact us: (800) 431-8900. srsystems@servoreelers.com