

## SRP-8 Servoreeler

**"Pull" Activated, Electronically Controlled  
Microphone Cable Servoreeler – Specifically  
Designed for Legislative body installations**

## SERVOREELER SYSTEMS

**XEDIT Corporation**

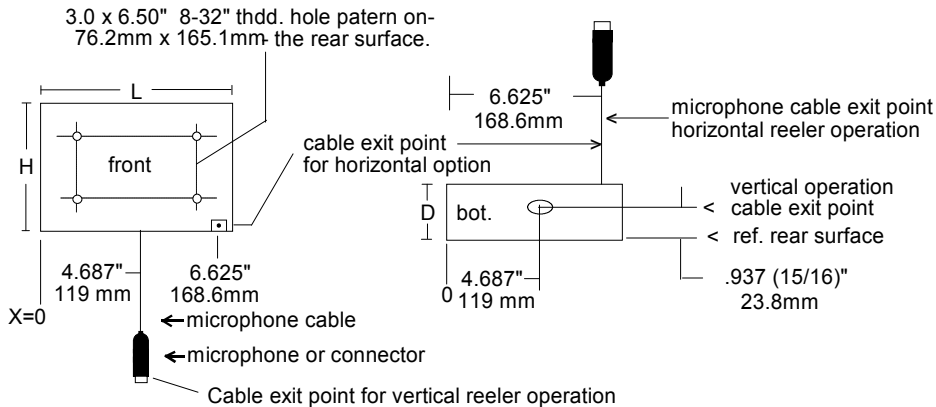
218-31 Ninety Seventh Avenue

Queens Village, New York 11429

Web site: [www.servoreelers.com](http://www.servoreelers.com)

e-mail: [srsystems@servoreelers.com](mailto:srsystems@servoreelers.com)

Tel: (718) 464-9400 Fax: 464-9435



Case Dimensions: H=5.50" L=7.25" D=2.062" 135.2mm x 184mm x 43mm

### Description of Operation

Responding to "pull" commands, this new (patented) slip ring free design is characterized by its almost organic feel and response. The initial pull on the cable is sensed by the control circuit; when a threshold velocity is exceeded, the servo is activated-imparting a light holdback tension and sensory feedback to the user; when the cable has been pulled to the desired length and held momentarily, the circuit will sense the cessation of motion (indicated by a gentle tug to the user) and cut-off power to the servo. This permits the cable to remain extended to the length of payout desired by the user. The cable may be pulled and extended further or pulled and released to allow the cable to retract to its stored position.

Notwithstanding its ability to respond to intentional pull command, small accidental or inadvertent tugs on the cable will not trigger unwanted-premature retraction. Because the system utilizes motion sensing, the Servoreeler will not damage itself, its cable or tear a microphone away from the user if the microphone is clipped on a lapel or blouse. These "smart" operational characteristics are in stark contrast to the hair trigger release of mechanical reelers. In addition, our Servoreeler can stop at any chosen position of cable-payout; the tedious "hunting" for a mechanical "address" to stop the cable is eliminated.

### Features:

- 1- The signal path through the Servoreeler is uninterrupted, no contacts or slip-rings are employed.
- 2- Designed to respond to pull commands: Start, Stop and Retract.
- 3- Will stop at any length of cable payout: Not limited to specific mechanical stop locations.
- 4- Automatic end of reel retract (2 or 3 turns) and stop: Maintains ability to re-start by pull command.
- 5- Designed to distinguish between intentional "pull" commands and low, constant velocity or short tugs that are accidentally imparted to the cable.
- 6- Quiet mechanical operation: The servo-motor is shock mounted to assure low acoustic coupling.
- 7- External TTL compatible-retract command input: Provides automatic retraction when a microphone is replaced in a cradle equipped with a hang-up sensor switch.
- 8- Power-up inhibit function: Prevents retraction on power-up if Servoreeler cables have been left extended. This can be important in centrally powered systems, where a mass retraction could result in a large current surge.
- 9- Power-Off cable control: This prevents internal cable spillage should the cable be pulled when the power is off.
- 10- Can operate in any orientation: Normal cable feed is with the Servoreeler vertical; Horizontal operation is optional.
- 11- High quality microphone cable: 2mm, 2 conductor, satin black, very compliant, shielded and Kevlar reinforced.
- 12- Long cable life: Gentle internal cable handling - resulting in extremely low cable wear.
- 13- No maintenance is required: All rotating components employ sealed precision ball bearings.
- 14- High MTBF: Installed systems have demonstrated failure rates of zero to one (1) failure in 1,000,000 operating hrs.
- 15- Provided with a (5) year limited warranty on parts and labor; excluding damage to the microphone cable.

**Mounting:** The SRP-8 is provided with a 3.0" x 6.5" (76.2mm x 165.1mm) mounting hole patern on its rear surface.

These holes are threaded-thru to accept 8-32 machine screws

**Cable Capacity:** 8 feet of 2mm, black, Kevlar reinforced microphone cable.

**Operating voltage:** 15VDC @ 500ma **External retract signal:** TTL level 3V to 24VDC

**RML Microphone specifications:** **Freq. response:** 50 to 17,000 Hz **Sensitivity:** Omni Capsule (standard) -27.5 dB/Pa (42.2mV)

**Equivalent output noise:** 116.7dB (A-weighted) **Signal to noise Ratio:** 73.5dB (reference @94 dB SPL)

**Dynamic Range:** 96.2db@ 1Kohm Load **Power requirement:** 11 to 52 Vdc phantom @ 2.0ma

Should you require any assistance in evaluating a proposed application, or have any questions regarding Servoreeler operation or installation requirements, please call our toll free line at: (800) 431-8900.

