

**WEB DEVICES SRD USER MANUAL**



Model: \_\_\_\_\_  
 Serial #: \_\_\_\_\_  
 Date of Mfg: \_\_\_\_\_  
 Class: \_\_\_\_\_  
 SRL \_\_\_ SRL-R \_\_\_ SRL-LE \_\_\_

**Web Devices Fall Arrest Systems**

**6.3 INSPECTION AND MAINTENANCE LOG CONTINUED:**

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved by:			
Approved by:			
Approved by:			
Approved by:			
Approved by:			
Approved by:			
Approved by:			
Approved by:			
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Approved by:			



***Self Retracting Device  
 User Instruction  
 Manual***

This document describes the proper use, application, and inspection for Web Devices Fall Arrest Systems Self Retracting Devices.

Meets or exceeds  
 ANSI Z359.14-2012,  
 ANSI Z359.1-2007,  
 & ANSI A10.32 2004  
 OSHA 1926.502 Subpart M

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 Phone 800.262.4891 · Fax 713.928.3356  
 www.webdevices-usa.com



**Web Devices Fall Arrest Systems**

**DO NOT THROW THESE INSTRUCTIONS AWAY!  
READ AND UNDERSTAND BEFORE USING EQUIPMENT!**

This manual shall be read and understood in its entirety by Authorized Users, and used as part of a training program as required by OSHA or any applicable state regulatory agency.

This and any other included instructions must be provided to the Authorized users of the equipment. The user must understand the proper equipment use and limitations. Owners must keep a copy of these instructions on site for reference and training.

This product meets all applicable OSHA and ANSI standards for fall arrest.

**WARNING!**

**DO NOT ALLOW SELF RETRACTING DEVICES TO "FREE-WHEEL."**

Any and all Web Devices Self Retracting Devices (SRDs) should never be allowed to "free-wheel" or freely retract back into the housing after disengagement by the user.

There shall be constant pressure/tension applied to the cable or webbing during retracting (no matter the length). A tagline shall be used to allow the unit to retract under constant tension.

Failure to follow these instructions during use of any SRD can damage the unit which can cause serious injury or death.

Allowing this device to "free-wheel" can cause the unit to permanently lock up, or not lock as designed. A recertification will be required by the manufacturer to release the locked up cable or webbing. This could cause permanent damage to the internal parts of the unit which will require replacement.

Please consult with Safety or Supervision Personnel should you have any questions. You may also contact Web Devices at 800-262-4891 for consultation on the proper use of Self Retracting Devices (SRDs).

**DO NOT:**

- Do not alter or misuse this equipment.
- Do not use combinations of components or subsystems that may affect or interfere with the safe, compatible function of each other.
- Do not expose the equipment to chemicals which may produce a harmful effect or degrade the equipment. Consult manufacturer in cases where doubt exists.
- Do not use the equipment around moving machinery or electrical hazards unless specifically designed for such use.
- Do not use the equipment around sharp edges or abrasive surfaces unless intended for such use.

**WEB DEVICES SRD USER MANUAL**

**6.3 INSPECTION AND MAINTENANCE LOG:**

- All SRDs (excluding the SRL 10900 and Predator) should be serviced by Web Devices or an authorized service center every two years.
- The service life will depend on the use and environment to which the unit is subjected. Harsh environments may require more frequent inspection, service, or shorten the life of the SRD. Refer to ANSI Z359.14-2012 for guidance.
- The service life of the webbing in a web unit is 5 years from date of first use, or manufacture date, or date of replacement by Web Devices.

SERIAL NUMBER: \_\_\_\_\_  
(Log unit serial number found on backside of label)

MODEL NUMBER: \_\_\_\_\_  
(Model number found on backside of label)

DATE PURCHASED: \_\_\_\_\_

DATE FIRST USED: \_\_\_\_\_

**INSPECTION LOG**

A Competent or Qualified Person must inspect and initial every 6 months.  
Date of first use (must be completed): \_\_\_\_\_

YR	J	F	M	A	M	J	J	A	S	O	N	D

If unit fails inspection, remove from service and destroy or contact Web Devices for repair and recertification.



## WEB DEVICES SRD USER MANUAL

### 6.1 INSPECTING THE SELF RETRACTING DEVICES CONTINUED:

- Step 9:** Inspect connecting hooks or carabiners for signs of damage, corrosion, or excessive wear. Hooks and carabiners must close and lock without aid from the inspector.
- Step 10:** Check load indicator for signs of deployment. If indicator is red, DO NOT USE! Indicator will be located on either the swivel snap hook or carabiner, or sewn into the lifeline of a web SRD. If applicable, also inspect the integral energy absorber for signs of deployment.
- Step 11:** Record inspection results in the inspection and maintenance log found in this manual.

### 6.2 CABLE INSPECTION:

When inspecting SRDs that utilize cable lifelines, it is critical to look for the following damages and deterioration that will result in malfunction of the unit and potentially unsafe conditions.

- **Crushing:** The cable will often get crushed or bent while being used on a job site. Cable that is crushed or bent will damage the retractable and thus the unit should be immediately taken out of service and returned to Web Devices.
- **Cutting:** Movement over sharp edges or other objects while the cable is under tension can result in damaged strands and broken wires. If broken strands are found during inspection of the SRD, immediately remove from service and return to Web Devices.
- **Abrasion:** Abrasion can result from normal wear. Particular attention must be paid to the outer wire strands as they will appear to be flattened and/or more shiny than other parts of the cable. If damage or deterioration from abrasion is found during inspection prior to each use, immediately remove the unit from service and return to Web Devices.
- **Kinking:** Any deformation in the cable whereas the lifeline appears to be bent requires the retractable to be immediately removed from service and returned to Web Devices.
- **Corrosion, Arc, or Heat Damage:** Extreme caution must be taken to avoid any potential damage as a result of using a retractable in an environment where corrosive compounds, welding, or high heat may exist. Corrosive damage could cause the cable to crack. Welding damage would result in fused wires and thus change the characteristics of the strength with regards to the wire. If the retractable is used in these environments, the retractable lifeline needs to be closely examined for damage and may require more frequent formal inspections. If you have any questions in terms of damage to the retractable or further explanation of the above information is needed, please call Web Devices at **800-262-4891**.

## WEB DEVICES SRD USER MANUAL

### GENERAL SYSTEM SELECTION CRITERIA:

Selection of fall arrest equipment shall be made by a Competent Person. All personal fall arrest systems (PFAS) shall be purchased new and unused.

This equipment is designed for use as part of a complete PFAS. Components shall not be used for any other operation other than that which it has been designed and approved.

### 1.0 TRAINING REQUIREMENTS:

The employer shall provide a training program for each employee who may be exposed to fall hazards. The program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards. Relevant Federal, State, and Local regulatory requirements, procedures, and standards shall also be a part of training.

The employer shall ensure that each employee has been trained, as necessary, by a Competent Person, in the nature of fall hazards in the work area. Training shall also include the correct methods for erecting, maintaining, disassembling, and inspection of the fall protection systems being used, and demonstrate the use of a PFAS.

### 2.0 DESCRIPTION OF PRODUCT:

**Retractable:** All Web Devices Self Retracting Devices (SRD) are considered mechanical devices. This device is used to safely expand the working area where a harness with a 6 ft. shock absorbing lanyard is not adequate. An SRD is also designed to reduce the shock loading to the body of a worker by limiting the fall distance. The device allows for complete freedom of movement. The SRD is to be considered part of a complete PFAS. PFAS normally include the use of a full body harness, anchorage connector, such as a carabiner, and the SRD.

### 2.1 PRODUCT APPLICATION INFORMATION:

The SRD can be used in a stationary or mobile manner. As a stationary device, the SRD would be mounted to an approved fixed anchorage connector directly overhead. The SRD will extend as the user moves away from the anchorage point and retracts as the user moves back towards the anchorage point. As a mobile device, the SRD would be traveling on a steel cable, rope, or fixed rail, traveling from one end of the anchorage, to the other.



## WEB DEVICES SRD USER MANUAL

### 3.0 RESCUE PLAN:

The owner of this, and all PFAS, shall have a rescue plan and the means at hand to implement it. The plan shall be project specific. Employees shall be trained in rescue, and means or equipment shall be provided for prompt rescue, in the event of a fall.

#### 3.1 IF EQUIPMENT IS SUBJECTED TO A FALL, OR DYNAMIC FORCE:

Remove the equipment from service immediately. Contact your distributor or Web Devices about policies regarding replacement of Web Devices components involved in a fall arrest.

#### 4.0 INSPECTION PRIOR TO FIRST USE:

- The date of initial use (service), and the serial number of the unit shall be recorded on the *Inspection Log* found on page 11 of this instruction manual. A copy shall be maintained in the safety department, and on site.
- Formal inspections shall be made and documented by a Competent or Qualified Person on at least a semi-annual basis.

#### 4.1 INSPECTION PRIOR TO EACH USE:

- Fall protection equipment shall be inspected by the Authorized user for defects, damage, or deterioration prior to each use.
- Any suspected defective equipment shall be removed from service.
- If the manufacturer's label is not legible or is missing, the equipment shall be removed from service. Fall protection equipment shall be removed from service upon evidence of defects, damage, or deterioration, or upon expiration of the manufacturer's specified service limits, whichever comes first.
- *Please refer to section 6.0 INSPECTION OF SELF RETRACTING DEVICES on page 9 for the formal inspection guidelines.*

### WARNING!

Consult with your doctor if there is reason to doubt your physical ability to safely absorb the forces of a fall arrest. Age, fitness, and health conditions can seriously affect a worker's ability to withstand a fall arrest. Pregnant women or minors shall not use any Web Devices equipment.

#### 5.0 MAINTENANCE, CLEANING, AND STORAGE:

- Repairs to equipment shall only be performed by a Web Devices technician, person, or entity authorized in writing by Web Devices. Contact Web Devices for maintenance and repair at 800-262-4891.
- Refer to ANSI Z359.14-2012 for guidance as to more or less frequent recertification.

## WEB DEVICES SRD USER MANUAL

### 6.0 INSPECTION OF SELF RETRACTING DEVICES:

- This equipment shall be inspected prior to each use by the Authorized user, and every six months by a Competent or Qualified Person. These inspections shall be documented.
- This equipment shall only be recertified by a factory authorized service center by a Qualified Technician.
- If the equipment is subjected to the forces of a fall arrest, the SRD and all other components of the system shall be removed from service immediately. Most SRDs involved in a fall can be recertified and should be returned to Web Devices for assessment. All other PFAS components involved in a fall shall be destroyed or returned to Web Devices.

### WARNING!

If inspection reveals an unsafe or defective condition, remove the product from service and send product back to:

Web Devices  
903 Port Houston Street  
Houston, Texas 77029

***Inform your onsite Safety Director immediately in the event a fall occurs with this equipment.***

### 6.1 INSPECTING THE SELF RETRACTING DEVICES:

- Step 1:** Inspect for loose screws and bent or damaged parts.
- Step 2:** Inspect housing for distortion, cracks, or other damage. Ensure the swivel eye is not damaged or distorted in anyway. Make sure the swivel eye turns freely.
- Step 3:** The lifeline must fully extend and retract without hesitation or creating a slack line condition.
- Step 4:** Ensure the device locks when lifeline is jerked sharply.
- Step 5:** The labels must be present and fully legible with inspection log information completed.
- Step 6:** Look for signs of corrosion on the entire unit.
- Step 7:** Wire rope inspection must include identifying cuts, kinks, broken wires, corrosion, welding splatter, chemical damage, or severely abraded areas. Check all thimbles, etc. for excessive wear including cracks, elongation, or separation of metal components. **NOTE:** An elongated thimble is indication of a fall arrest or misuse of the SRD.
- Step 8:** Webbed lifeline inspection must include identifying frayed strands, abraded webbing, burns, cuts, and abrasions. Inspect for excessive heat, paint build-up, soiling, rust, or chemical damage indicated by brown or discolored areas.

## WEB DEVICES SRD USER MANUAL

### WARNING!

Do not alter or intentionally misuse this equipment. Consult with Web Devices when using this equipment in combination with components or subsystems other than those described here in this manual and/or other information. Use caution when using this equipment around moving machinery, electrical and chemical hazards, and sharp edges.

### 5.3 PERSONAL FALL ARREST INFORMATION:

- **Personal Fall Arrest System (PFAS):** PFAS used with this equipment shall meet applicable State, Federal, Local, OSHA, and ANSI requirements. A full body harness must be worn when this equipment is used as a component of a PFAS. As required by OSHA, the PFAS must be capable of arresting the user's fall with a maximum arresting force of 1,800 lbs., and limit the free fall to 6 ft. or less. Class A SRDs will comply with ANSI Z359.1 with a maximum arrest force of 1,800 lbs. but does not comply with ANSI A10.32 because the maximum arrest force will be greater than 1,000 lbs.

### 5.4 OPERATION, USE, AND PLAN:

- **Anchorage:** The anchorage to which the SRD is attached must be capable of supporting 5,000 lbs., or a safety factor of two under the supervision of a Qualified Person. This device is to only be used by one person at one time. When more than one PFAS is attached to the same anchorage, the strength requirements stated above must be multiplied by the number of personal fall arrest systems attached.
- **Horizontal Systems and Tripods:** In applications where a SRD is used in conjunction with a horizontal system, with a tripod, or with davit arm, ensure the support structure and the horizontal system components are compatible. Horizontal systems must be designed and installed under the supervision of a Qualified Person.
- **Anchorage Selection:** Select an anchorage point for the SRD that will avoid excess free falls or swing falls. To prevent an increased free fall distance, do not work above the anchorage location, unless the SRD is intended to be used in this type of application.
- **Free Fall:** Personal fall arrest systems must be designed so the potential free fall is never greater than 6 ft. Avoid slack in the line and do not lengthen the SRD by connecting a lanyard or other snap hooks directly to the retractable. A personal energy absorber or D-ring extender may be used.
- **Fall Clearance:** Ensure that there is always adequate clearance in the path of a fall to avoid striking an object or lower level.
- **Sharp Edges:** Unprotected and sharp edges can damage the lifeline. Make sure to avoid working where this can occur and provide protection where possible. For more information on this product, please contact Web Devices directly. No alterations or additions to any Web Devices products are allowed.

## WEB DEVICES SRD USER MANUAL

### 5.0 MAINTENANCE, CLEANING, AND STORAGE CONTINUED:

- Cleaning after use is important for maintaining the safety and life of the equipment. Cleanse the equipment of all dirt, corrosives, and contaminants. If the equipment cannot simply be wiped clean, use a mild soap and water. Rinse, wipe, and hang to dry.
- Store equipment where it cannot be affected by heat, light, excessive moisture, oil, chemicals, or other degrading elements.
- This device, unless otherwise indicated, should be returned for factory servicing every two years from the date of first use. (Excluding the Predator SRD which should be serviced annually.)
- This device must also be returned if the product fails any inspection prior to use, the load indicator has been activated, or a Competent Person has deemed the equipment unsafe.

### 5.1 LIMITATIONS:

Consider the following application limitations before using this equipment:

- **Corrosion:** Leaving the SRD in an environment for long periods of time that could cause corrosion of metal parts is not warranted in any way and shall not be done. Use caution when working around corrosive compounds such as ammonia, sewage, fertilizers, seawater, or other corrosive environments. These environments may require more frequent inspections or servicing. These increased inspections and services are required to ensure corrosive damage is not impacting the performance of the SRD. A Competent Person shall make this determination.
- **Chemical Hazards and Heat:** Extreme caution must be taken when working in or around environments containing acid or caustic chemicals, particularly at elevated temperatures. Damage will result to an SRD in this environment. Chemical damage is difficult to detect and it is recommended that the lifeline be replaced periodically to ensure safety of the workers. Additionally, this SRD is not to be used in high temperature environments. The SRD must be protected when used near welding, metal cutting, or similar activities. Hot sparks and slag can damage this equipment. Users must inspect SRD prior to each use!
- **Electrical Hazards:** For web and wire rope models, there is a possibility of an electric current flowing through the lifeline. Moisture absorbed by the lifeline may provide a path for electrical current to flow, resulting in electrical shock. Use caution where the lifeline may contact high voltage power lines.
- **Potential Environmental Hazards:** Use of fall protection equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include but are not limited to: chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

## WEB DEVICES SRD USER MANUAL

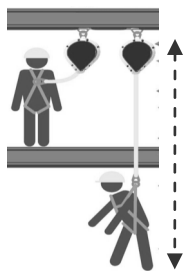
### 5.1 LIMITATIONS CONTINUED:

- **Locking Speed:** Extreme caution should be taken when using this device when an obstructed fall could occur or when someone must perform work in a confined or cramped space. Working in these types of environments could limit the speed at which the locking mechanisms engage. Extreme caution should be taken when working on low pitched roofs, where a worker may slide instead of fall. A clear path is required to ensure positive locking of the SRD.
- **Capacity:** The SRD is to be used by an Authorized Person with a combined weight (person, clothing, tools, etc.) of 130 lbs. minimum and no more than 310 lbs. maximum. All SRDs can be custom manufactured with a capacity load limit of 311 lbs. - 400 lbs. (with the exception of the SRL 10900). No more than one person may be connected at one time, to any personal fall arrest system.
- **Physical Ability:** The ability of an Authorized Person to physically sustain the forces of a fall should be determined, based on the class of SRD being used; "Class A" arrest force 1350 lbs., "Class B" arrest force 900 lbs.
- **Minimum Clearance Required:** A Competent or Qualified Person shall determine total fall distance (TFD) based on the class of SRD being used. A safety zone should be established by a Competent or Qualified Person. Authorized Persons shall be capable of calculating TFD, based on the class of SRD being used and the established "safety zone." Please refer to the instructions and labeling on the particular SRD being used. If unsure, please contact Web Devices.

**Authorized users of Web Devices fall arrest systems shall be capable of calculating Total Fall Distance (TFD).**

**Three things must be considered when using an SRD:**

	Class A	Class B
Maximum Arrest Distance	2 ft.	4½ ft.
Harness Effect	6 inches	6 inches
D-Ring to feet distance (usually 5 ft.)	5 ft.	5 ft.
Total Fall Distance	7½ ft.	10 ft.

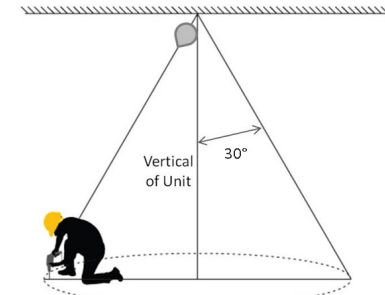


Maximum Arrest Distance + Harness Effect + D-Ring to feet =  
**Total Fall Distance**

## WEB DEVICES SRD USER MANUAL

### 5.1 LIMITATIONS CONTINUED:

- **Swing Falls:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize the risk of swing falls by working as close to the anchorage point as possible. Do not permit a swing fall. Never move farther than 30° from vertical. **Swing falls will significantly increase the clearance required when a self retracting device or other variable length connecting system is used.**



**ATTACH TO OVERHEAD ANCHORS! SWING FALLS INCREASE FALL ARREST DISTANCE!**

### 5.2 SYSTEM REQUIREMENTS:

- **Compatibility of Components:** Web Devices equipment is designed to be used with Web Devices approved components. Please contact Web Devices if you have a question regarding compatibility. Making substitutions without approval from Web Devices may lead to injuries and/or death by compromising the safety and reliability of the complete system. A Competent or Qualified Person shall make a determination on compatibility of equipment from different manufacturers. If in doubt, please contact Web Devices for clarification.
- **Compatibility of Connectors:** Connectors used with Web Devices SRDs shall meet the requirements of ANSI Z359.12-09. Connectors shall be self-closing/self-locking. Connectors must be compatible in size, shape, and strength.
- **Making Connections:** Only use self-closing/self-locking snap hooks and carabiners with any Web Devices equipment. Do not use equipment that is not compatible! If you have any questions on compatibility, please call Web Devices at **800-262-4891**.
- **Important:** Never attach a shock absorbing lanyard to an SRD! Excessive free fall can occur, causing failure of the system, serious injury, or death!