Pass & Seymour®

1000 Series Cable Reel

No: 341237 – 09/18

Installation Instructions • Notice d'Installation • Instrucciones de Instalación

Catalog Number(s) • Numéro(s) de Catalogue • Les Numéros de Catalogue: CRCD

Country of Origin: Made in USA • Pays d'origine: Fabriqué en USA • País de origen: Hecho en USA

READ & SAVE THESE INSTRUCTIONS!

Electrical Warnings

Properly ground this equipment before use in accordance with both the National Electric Code and local electrical codes and ordinances.

Disconnect the electrical power from the cable reel before any service functions are performed.

Do not use this cable reel for loads greater than the current rating listed on the label and voltage greater than 300V with SJOW-A cable OR 600V with SOW-A cable. The ampacity (current) rating of the cable must be in accordance with the National Electric Code.

Electrical wiring on the reel must be done by a qualified electrician.

Feeder Cord Connection

Power supply should have overcurrent protection to prevent overheating of the reel and cable.

Operational Warnings

Exercise care when handling the cable reel during normal operation. This cable reel has a rotating spool powered by springs under tension.

Do not allow cable to retract without restraining the retraction speed.

Do not disassemble the spring motor for any reason. Serious personal injury could result. This cable reel is equipped with springs under tension. Contact the factory for assistance:

1-800-223-4185

1-877-BY-LEGRAND

Maintenance Warnings

Do not use cable different from that for which the reel is intended. Changes in diameter, weight per foot, length of cable or flexibility will affect the operation of the reel.

Mounting hardware and fasteners should be installed to maintain tightness under vibration and checked periodically to assure tightness.

Overhead installation mountings should be such that the reel is not suspended by bolts in tension. A safety chain or cable is strongly recommended to minimize damage and/or possible injury in the event of mounting failure.

WARNING: Modification of this equipment may cause excessive wear and will void the warranty. Contact the manufacturer regarding changes or modifications of equipment which could affect reliability or safety.

Listed cable reels are intended for General/Commercial/Industrial use and are provided with permanent mounting means. They must be wired by a qualified electrician.

UL/CSA listed cable per rating of reel, as noted on the identification label, to be used for the supply cable (if flexible cable is used) and for the load end cable (active cable).

Electrical Rating

Reels equipped with cable are rated and should not be used at voltages and/or amperes above the rating on the reel. Please consult factory prior to making any changes in volts and amps of cable, as a change could affect reliability or safety.

Cable AWG / # of Cond.	Ampacity
16/3	10.0
16/4	8.0
14/3	15.0
14/4	12.0
12/3	20.0
12/4	16.0

INSTALLATION INSTRUCTIONS

This Cable Reel is factory wired with cable size and length specified at time of purchase. If not included, the load end must be installed per National Electrical Code, and local electrical codes and ordinances.

APPLICATION TYPES

Stretch Applications

The cable is suspended without any intermediate support. Stretch reels generally require a line pull equal to two times the weight of the cable, which allows approximately 10% sag at full extension. On long applications where sag cannot be tolerated, it is sometimes desirable to put supports at intervals of 5 to 10 feet. See Figure 1.

Lift Applications

The cable is lifted vertically in lift applications. The reel is normally designed to handle only the total weight of the cable. Some lift applications may require a ball stop and ratchet to control the length of cable to be retracted. See Figure 2.

Drag Applications

The reel is mounted on a stationary object and is required to drag the cable over the surface to the reel. The cable is supported by the ground or some type of cable tray. A ball stop may be required. All 1000 Series reels sold with cable have a ball stop installed on the reel. See Figure 3.

Retrieve Applications

The reel is mounted on the moving object and winds up or pays out the cable as the machine approaches or moves away from the fixed end. See Figure 4.

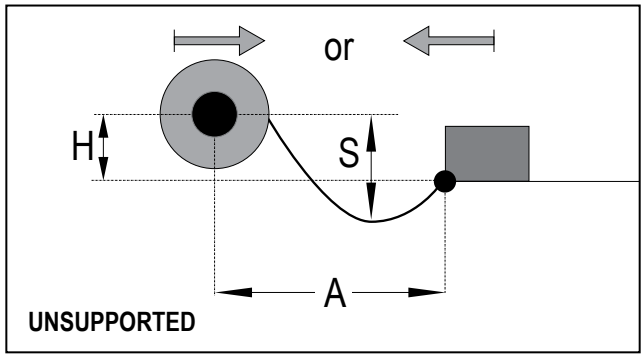


Figure 1 Stretch Application

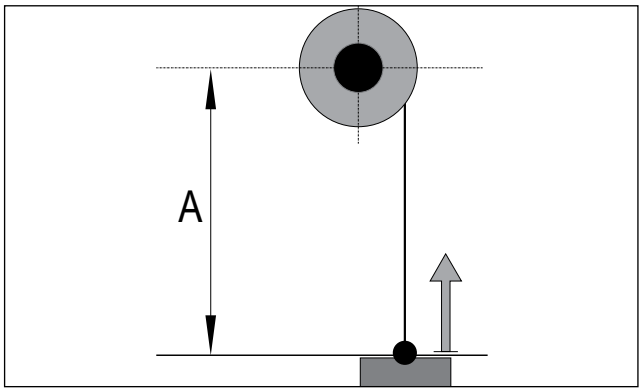


Figure 2 Lift Application

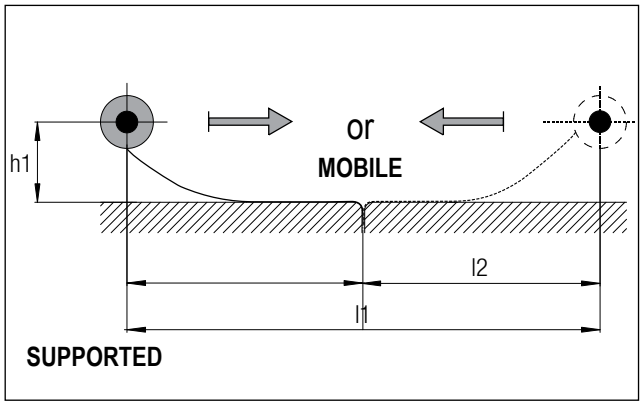


Figure 3 Drag Application

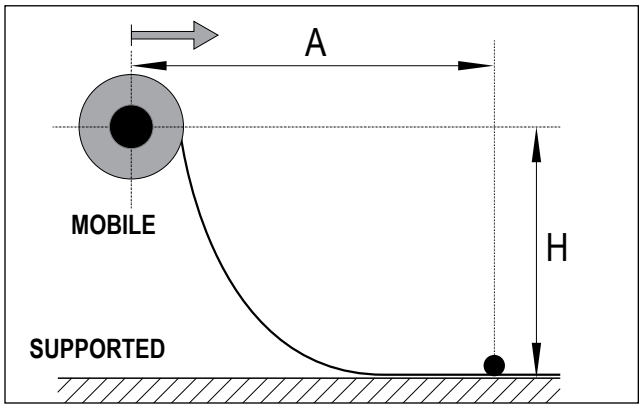


Figure 4 Retrieve Application

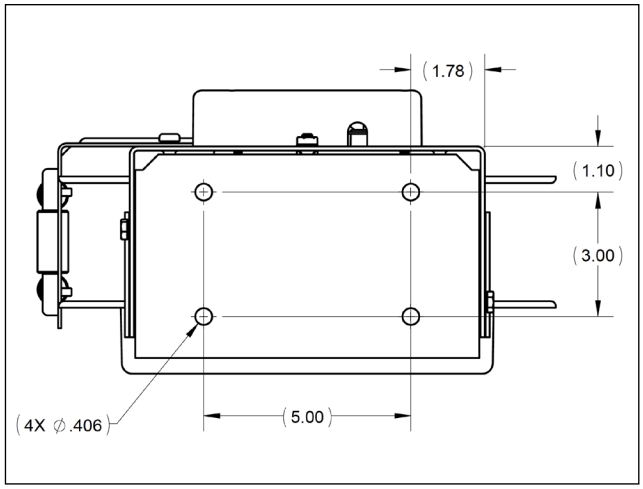


Figure 5 Underside of Mounting Base

Mounting

Standard Mounting

The reel may be mounted by bolting the base to any flat surface which is structurally sound and can support the weight of the reel and the forces of winding and unwinding the reel.

The spool must rotate on a horizontal axis for proper operation.

The reel must be oriented so that the cable extends perpendicular to the rotation of the spool. The total cable deflection should not exceed 30°. See **Figure 6.**

While mounting the reel, the installer must always safely support the weight of the reel. The reel should not be left hanging unsupported without the base mounting hardware properly installed and torqued.

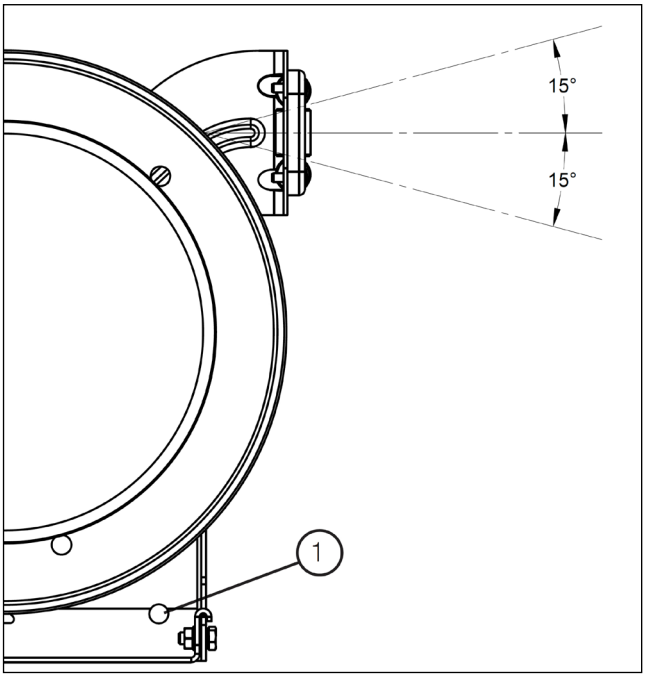
1. Unbolt the base hardware and remove the mounting base from the frame of the cord reel. **See Figure 5.**
2. Securely mount the base in the desired location.
3. Insert the reel into the base. Please note the reel will only install into the base in one direction.
4. Re-install the base mounting hardware and torque hardware to 50 in-lbs.

Reel Deflection

If deflection is constant to either side of the reel and operation is impaired, re-mount the reel.

We recommend a safety chain for all overhead installations.

Attach the safety chain using the 0.39 hole provided in the base. **See Figure 6.**



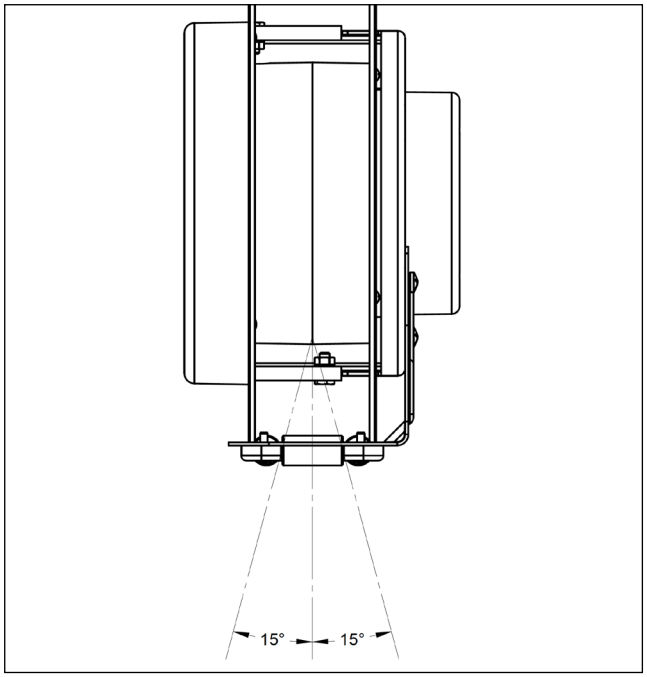


Figure 6 Cable Deflection with Roller Guide

1. Safety Chain Hole

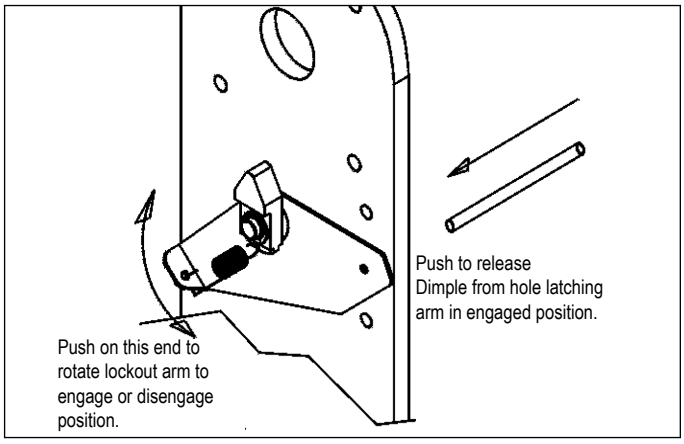


Figure 8

RATCHET

Ratchet Lock

The ratchet lock can be engaged or disengaged, depending upon the application. Reels are sent from factory with ratchet lock engaged. **See Figure 8.**

Operation with Ratchet

The ratchet pawl is spring loaded. It is designed to function in all acceptable mounting configurations. See Figure 8.

A slight pull on cable will disengage the ratchet. See Figure 8.

Operation without Ratchet

Disengage the ratchet by pivoting the lock-out bar to the lower position. This will remove the ratchet pawl from the path of the ratchet plate. Locate the dimple on the lock-out bar in the hole provided.
See Figure 8.

WARNING: Do not engage the ratchet abruptly. Sudden engagement may cause excessive shock loads to the ratchet pawl.

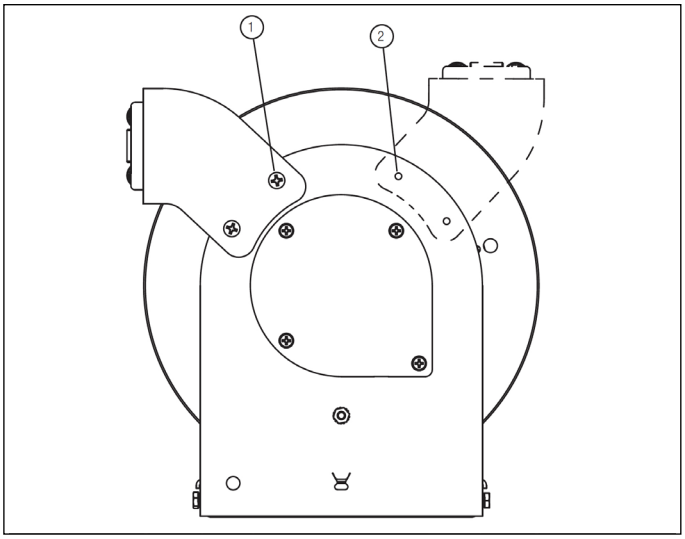


Figure 9 Guide Arm Positions

Guide Arm Position Adjustment

The guide arm can be mounted in two positions.

1. Slowly unspool a small amount of cable until the reel begins to click and the spool ratchet engages.
2. Unscrew the two phillips screws. **See Figure 9.**
3. Position the guide arm in the desired orientation and re-install the two phillips screws.
4. Torque the screws to 18 in-lbs.

OPERATION INSTRUCTIONS

- Do not exceed the voltage or ampere rating of the reel. Overheating, fire, damage to equipment or personal injury could result.
- Do not allow cable to retract without restraining the retraction speed.
- Operate the reel within the cable size and length and spring tensioning limits for which it was intended.
- Two wraps of cable should remain on the reel at maximum extension to avoid excessive tension on the cable entrance watertight.
- The spring should not be wound to its last two turns at maximum payout to avoid over-stressing the spring, thus reducing its life or damaging the reel.
- Keep the reel and cable clean to avoid excessive wear and damage.
- Arrange for maintenance service if damage is found on the cable or reel.
- Cable should be fully retracted when not in service to maximize spring life.

MAINTENANCE INSTRUCTIONS

Be sure the power is off for all maintenance.

Lubrication

- All springs and bearings are lubricated for life at the factory. Additional lubrication should not be required.
- Do not apply any lubricants or solvent cleaning agents to slip ring, brush or insulator surfaces.

Inspections

- Periodically check the reel for any loose or missing fasteners. Tighten or replace as necessary.

NOTE: Do not over tighten, this will cause fasteners to snap.

- The slip ring assembly should be checked periodically as follows:
  - Clean to remove dust and dirt from the slip ring housing area and all slip ring assembly and brush surfaces.
  - Inspect cable for damage or wear which would make it unsafe to use.

TROUBLESHOOTING INSTRUCTIONS

PROBLEM	POSSIBLE CAUSE	SOLUTION
Reel will not retract cable but has some tension	1) Improper pretension 2) Incorrect reel for application (lift vs. stretch) 3) Cable guide adjustment	1) See Spring Tension Adjustment 2) Verify Application vs. reel selection 3) Check guide alignment
Reel does not have any spring tension	1) Broken spring	1) Verify application and duty cycle
Ratchet will not activate	1) Broken ratchet pawl spring 2) Lock-out option arm deactivated	1) Replace device 2) Activate lock-out arm
Ratchet will not deactivate	1) Over-extension of reel	1) Manually rotate reel spool to deactivate ratchet. Do not over-extend. (Guide adjustment may prevent lock-up when over-extended)
Cable wraps improperly (uneven wrapping, wraps above or jumps flange)	1) Reel mounting not level 2) Cable retraction rate too high 3) Cable guide out of adjustment	1) Mount reel on level surface 2) Maintain steady retraction rate 3) Properly adjust cable guide
Cable twisting or knotting	1) Cable rubbing on or bending around fixed object 2) Excessive spring tension 3) Inadequate anchoring of cable	1) Check roller guide for function and cable payout path 2) Verify application vs. reel selection. Also check pretension 3) Adjust anchoring method i.e. and strain relief
Open or intermittent circuit	1) Inadequate connection 2) Loss of brush contact to slip ring 3) Cable defective	1) Check all termination points 2) Check brush wear, spring tension & alignment 3) Perform continuity check on cable termination points
Circuit trips and/or pitted burned rings or brushes	1) Inadequate amp rating of reel selection	1) Verify application requirements vs. reel & cable rating
Circuit arcing	1) Amp or voltage above rating of reel 2) Excessive carbon dusk accumulation 3) Water or moisture in slip ring 4) Loss of brush to ring contact	1) Verify application requirements vs. reel & cable rating 2) Clean dust from inside slip ring 3) Check gasket seal 4) Replace device

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