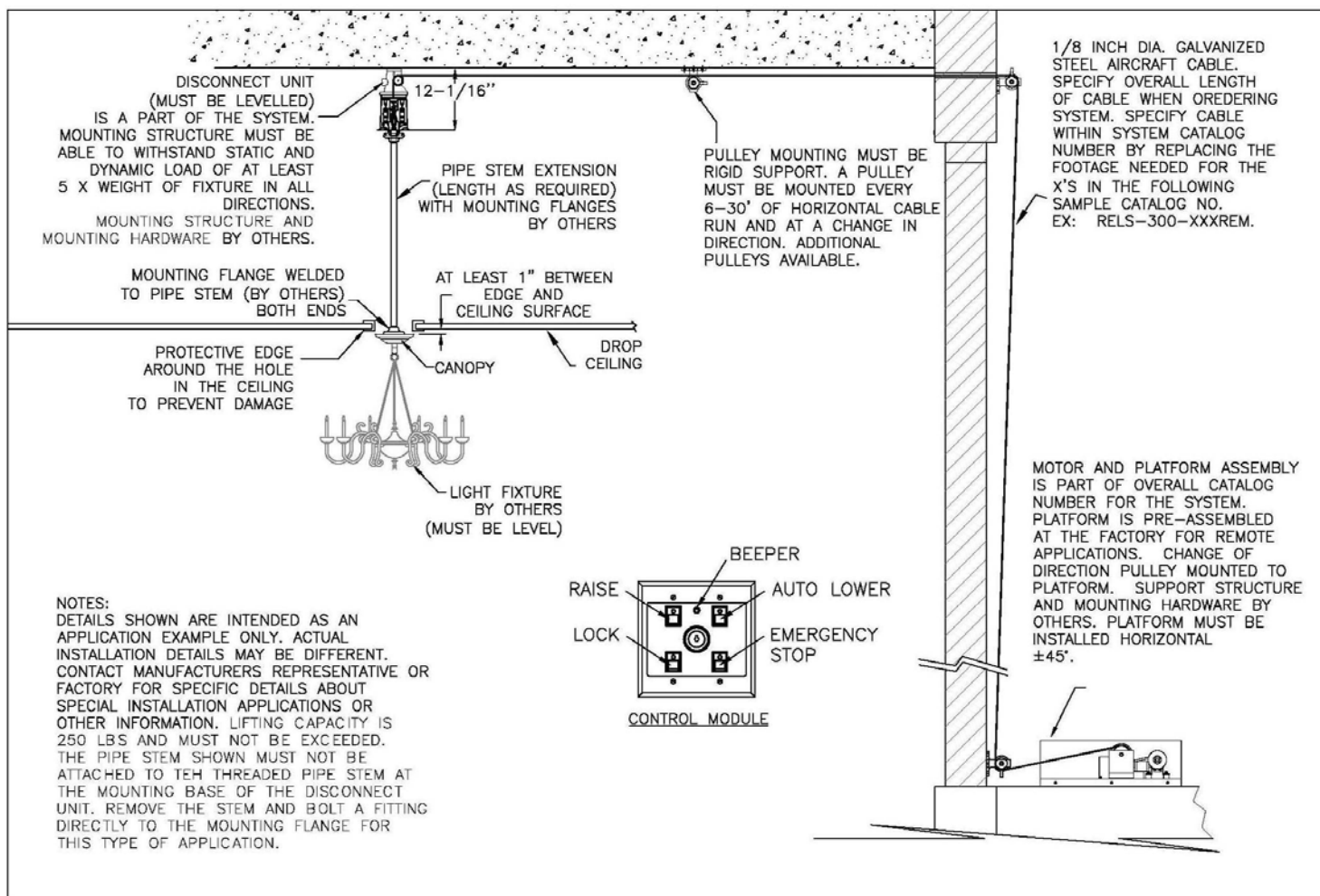


RELS-300-REM RESIDENTIAL ELECTRONIC REMOTE LOWERING SYSTEM FOR FIXTURES WEIGHTING FROM 20 TO 250 LBS.

DROP CEILING – SAMPLE LAYOUT





RELS-300-REM

FOR FIXTURES WEIGHING FROM 20 TO 250 LBS.

Features and Benefits:

An electronically controlled, motorized lowering system designed to raise and lower chandeliers weighing from 20 pounds to 250 pounds. The system comes with either the motor platform remote from the disconnect unit or with the disconnect unit mounted on the motor platform.

Self-Sustaining Gear Drive Unit

A self-sustaining worm gear drive arrangement prevents free falling of the chandelier while lowering, raising or servicing.

Contact Suspension Unit

Automatically guides chandelier up and down through the maze tracking system. Supports chandelier and always returns to same position. Locking electrical disconnect switch provides power to the chandelier and mechanically locks the fixture in place, relieving all tension on cable, gears and motor.

Electronic Control Module

Microchip technology provides capability to unlock chandelier from contact unit and lower it to pre-determined height with the push of a single button. Programmed sequencing allows operator to view raising and lowering of chandelier without having to continually push or twist a switch.

Principal Components of this System:

1. Electrical Disconnect Unit Assembly

It comes with two electrical contacts plus one ground as standard. (Additional contacts available) and includes fittings for surface mounting to a structure and a flange/stem adapter (3/4" male or 3/8" female available).

2. Motor Platform Assembly

It consists of formed and painted steel platform, motor, cable spool/gear box, one change of direction pulley, electrical connection box, and a formed and painted steel cover.

3. 1/8" galvanized steel aircraft cable assembly

Total cable length required = lowering distance + 5 ft + horizontal run + vertical run

4. An electronic programmable control module

It includes the cover plate and connection box. Electrical hook up wires and conduit to be provided by others.

5. Canopy

Spring loaded for height adjustment during locking and unlocking. Bright brass finish.

Motor: 1/4 HP permanent split capacitor with thermal overload protection. Draws maximum 2.6 amps including control system at 115 VAC 60 HZ. Must be mounted in an accessible location.

Gearing: Self-sustaining worm gear drive.

Mounting: The motor platform fits 16" or 24" centers. The assembly is pre-wired ready to install for standard construction. The disconnect unit can be mounted on platform or mounted on a different structure in non-remote systems.

Load Capacity: Minimum 20 pounds, maximum 250 lbs.

Cable: 1/8" diameter 7x19 galvanized steel. 40 feet provided for 35ft lowering distance. For additional cable, contact factory.

Maximum Lowering Distance: 40 feet. Must have 5 extra feet of cable on the drum.

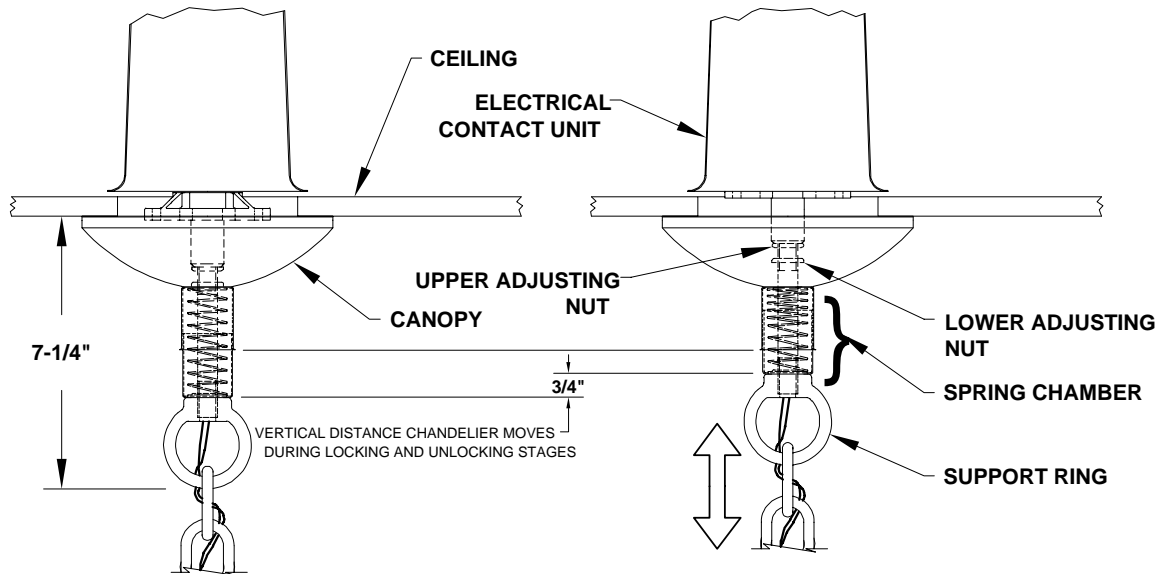
Voltage: 95 - 135 VAC 60 HZ at 1/4 ampere plus motor current. Only 2.6 motor amps. Lighting fixture requirements must be on separate circuit. Consult Elect. Contractor.

Disconnect unit electrical requirements: maximum 15 amps 277 volt or 20 amp 120 volt per circuit. Fixture load maximum is 2400 watts. For larger loads consult factory. Standard unit has two electrical contacts for one circuit. Contact factory for multiple circuit units.

System Speed: 1-1/2 feet per minute average.

Chain-links: Optional

CANOPY



During the lowering or raising of the fixture, when the electrical contacts engage within the ceiling mounted locking device, there is approximately $\frac{3}{4}$ " travel up and down to set the locking mechanism. The height compensating canopy will adjust to this condition to assure that the canopy will remain against the ceiling surface.

CANOPY: One piece 8" diameter and $2\frac{1}{4}$ " deep heavy gauge spinning with standard polished brass finish.

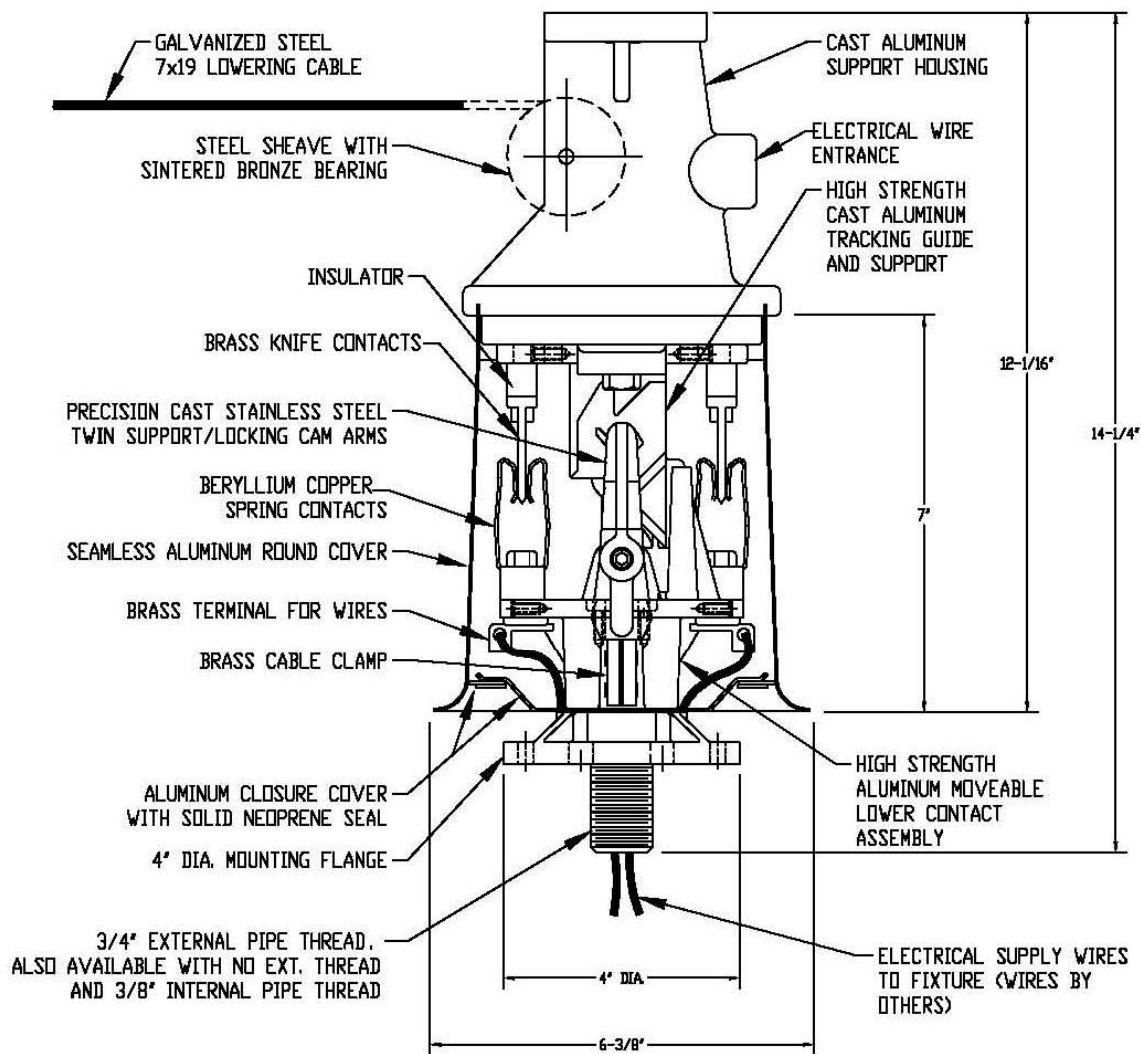
SPRING CHAMBER: Telescoping cups with bright brass finish enclose a $\frac{3}{8}$ " pipe stem that connects the electrical contact unit with the chandelier support ring. A large diameter compression spring within the chamber provides a constant and even pressure to keep the canopy against ceiling.

SUPPORTING RING: A heavy duty solid brass ring is threaded onto the end of the $\frac{3}{8}$ " stem and secured with a lock nut. Electrical wires are fed through a center hole in the ring.

SCU-2A DISCONNECT UNIT

FOR INDOOR MANUAL LOWERING SYSTEM

Load capacity 20-400 lbs with a safety factor of 6:1
2 contacts + 1 ground shown. Extra contacts available.

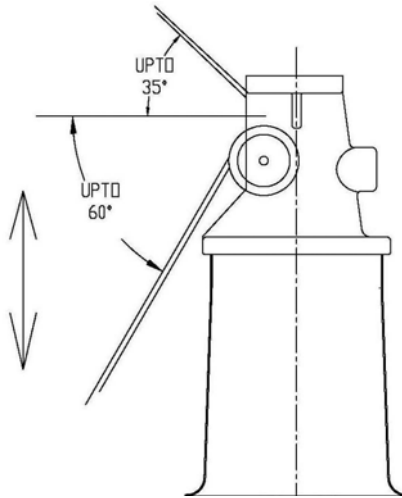


UL APPROVED
277/240/208 V. 15 AMP.
& 120 V. 20 AMP. AC
PER CONTACT

*The disconnect unit must be mounted to a **HORIZONTAL RIGID STRUCTURE**. All mounting must be able to withstand static and dynamic loading for at least 5X weight of the fixture in all directions. This structure must be approved by others. The winch or motor assembly must be placed 6-30' away from the first pulley or disconnect unit. A pulley must be used every 6-30' of horizontal straight run. Centerline of pulley groove must be aligned with cable path. Cable path must be free from interference. Specifications subject to change without notice.*

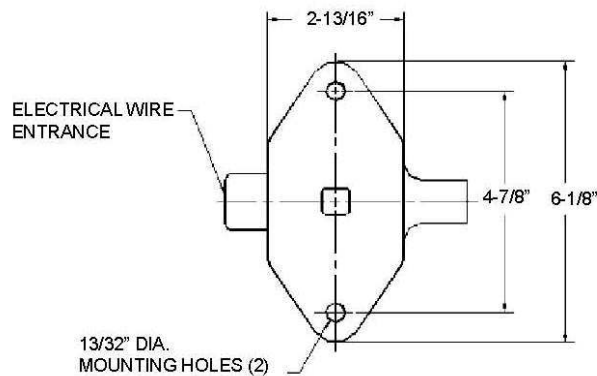
Scu2a1

Cable Orientation Options:

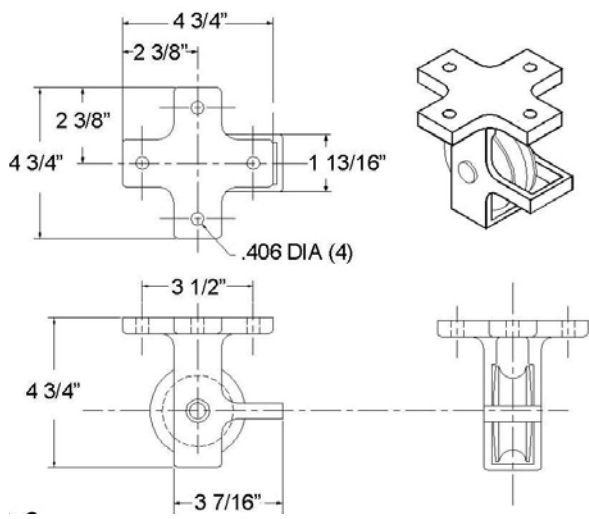


The disconnect unit allows the cable path orientation at an angle. The pulley installed in the upper casting attached to the disconnect unit guides the cable in the required orientation.

Mounting Details:

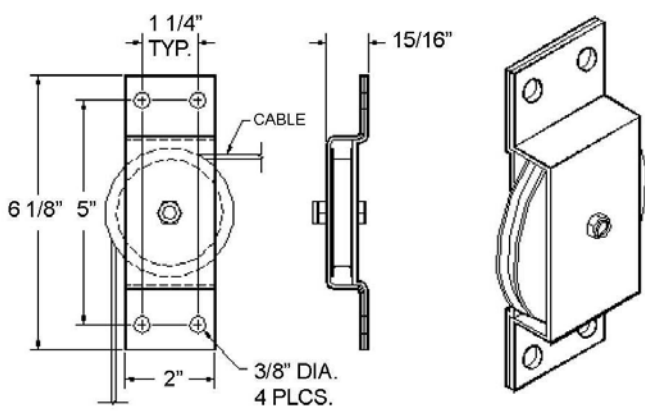


The disconnect unit must be mounted on rigid horizontal support. This support must be approved by others to be able to withstand static and dynamic loading of at least 5 X the weight of the fixture in all directions. Square center hole is optional. Please specify if required at the time of ordering.



3P-6

Various types of pulleys are available and should be designed for exact load and gear box. All pulleys have oilite bronze bearings for maintenance free life. This also insures their use for dirty atmosphere applications. Painted pulleys are available for highly corrosive areas. Pulleys can be spaced 6-30' apart on horizontal runs. A pulley must be used at every 30' of horizontal straight runs. Pulleys are required when vertical or horizontal changes in direction occur. It is important that pulleys are properly aligned. The centerline of the pulley-sheave groove must coincide with the centerline of the cable path when installing. Always take pulley friction into consideration if loads are near limits of the gear box. Pulleys must be installed on rigid surfaces which are able to withstand at least 5 X load of the fixture in all directions. The installation must be approved by others.



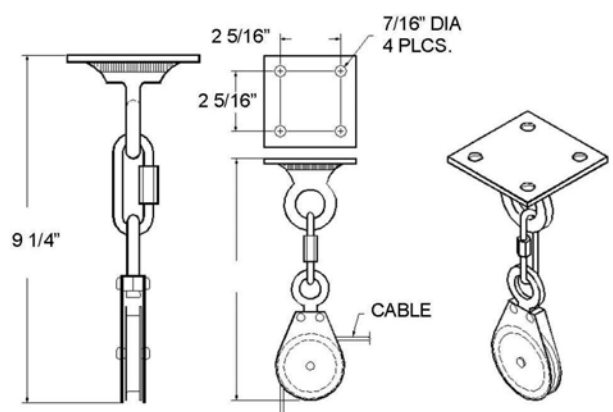
3P-3

3P-6

Load capacity for a 3P-6 pulley is 20-400 lbs. A 3P-6 pulley can facilitate a change in direction of the cable from wall to ceiling i.e. from vertical to horizontal. 3P-6 pulleys should be spaced 6-30' apart on horizontal runs. Change in direction of cable to angles other than 90 degrees is possible. See page p3 for details. This pulley allows the twisted quick-link to pass through.

3P-3

Load capacity for a 3P-3 pulley is 20-400 lbs. A 3P-3 pulley can facilitate a change in direction of the cable on the same plane. See page p3 for examples and details.

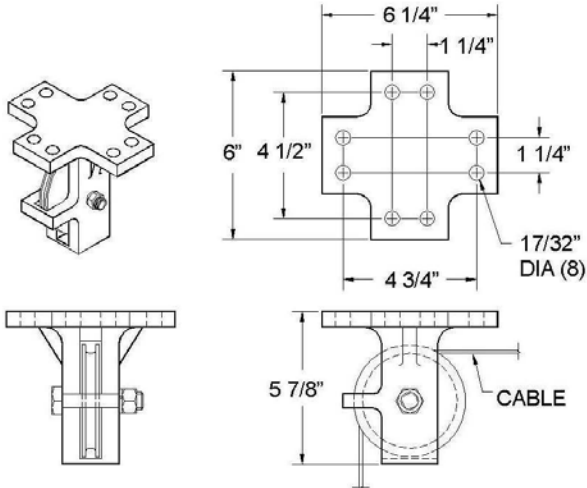


3P-5

3P-5

Load capacity for a 3P-5 pulley is 20-400 lbs. A 3P-5 pulley can facilitate a change in direction of the cable in different planes due to the swivel nature.

* Specifications subject to change without notice.



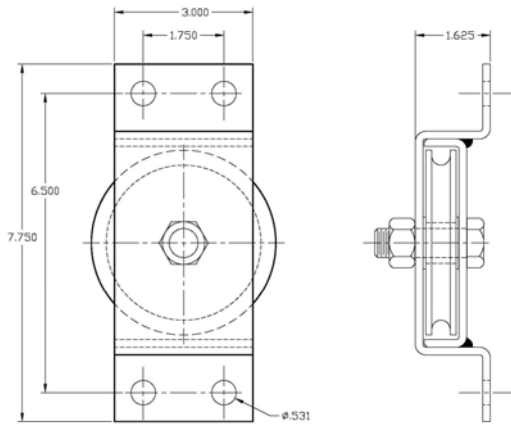
4P-4

4P-4

Load capacity for a 4P-4 pulley is 400-1100 lbs. A 4P-4 pulley can facilitate a change in direction of the cable from wall to ceiling i.e. from vertical to horizontal. 4P-4 pulleys should be spaced 6-30' apart on horizontal runs. Change in direction of cable to angles other than 90 degrees is possible. See page p3 for details.

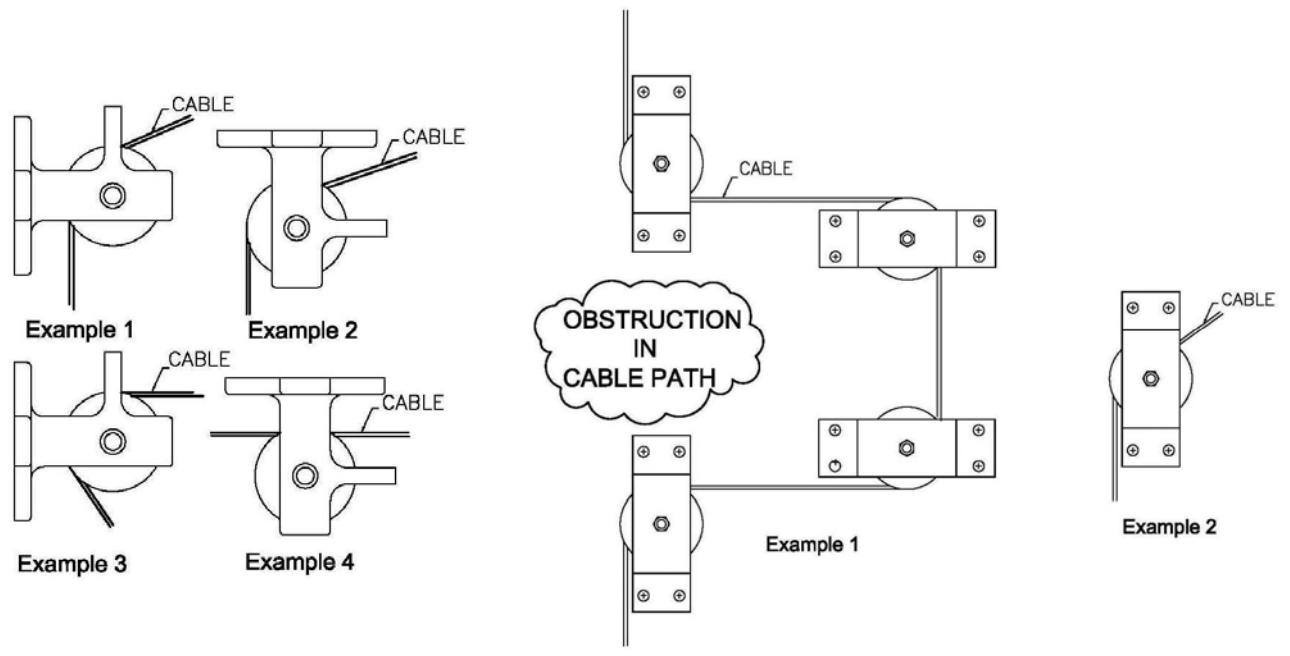
4P-3

Load capacity for a 4P-3 pulley is 400-1100 lbs. A 4P-3 pulley can facilitate a change in direction of the cable on the same plane. See page p3 for examples on uses of 4P-3 pulley.



4P-3

* Specifications subject to change without notice.



3P-6 and 4P-4 Uses

3P-3 and 4P-3 Uses

3P-6 and 4P-4 pulleys (depending upon load) can facilitate a change in direction of the cable from wall to ceiling i.e. from vertical to horizontal. These pulleys should be spaced 6-30' apart on horizontal runs. The above examples show that change in direction of cable to angles other than 90 degrees is possible. These pulleys can be placed horizontally (examples 2 and 4), vertically (examples 1 and 3) and on inclined surfaces for maximum versatility as long as the cable path is aligned to the pulley sheave groove and as long as the cable path is not interfered by any obstacles.

3P-3 and 4P-3 pulleys (depending upon load) can facilitate a change in direction of the cable on the same plane. Example 1 is a simple way using 4 pulleys to go around an obstruction in the cable path.

* Specifications subject to change without notice. Details shown are intended as an application example only. Actual installation details may vary. Contact manufacturer's representative or factory for specific details about special installation application or other information. Lifting capacity is 400 lbs and must not be exceeded.



RELS-300-REM

FOR FIXTURES WEIGHTING FROM 20 TO 250 LBS.

Ordering Information for the RELS

PROJECT NAME:
 QUOTE REQUEST FROM:
 SALES REPRESENTATIVE NAME:
 EMAIL:
 DISTRIBUTOR:
 WEIGHT OF FIXTURE:
 VOLTAGE OF FIXTURE:
 NUMBER OF CIRCUITS:
 FIXTURE MOUNTING REQUIREMENTS:

Standard system comes with 3/4" external pipe threads. Also available in 3/8" internal threads.

For special requirements, please contact factory.

VERTICAL CABLE RUN (V):
 HORIZONTAL CABLE RUN (H):
 LOWERING DISTANCE (L):
 NUMBER OF ADDITIONAL PULLEYS
 REQUIRED:
 3P-3
 3P-6
 3P-5

A 3P-3/3P-6/3P-5 pulley is required every 30 feet of horizontal straight run and every change in direction of cable.

See Specification sheets for details to select the appropriate type of pulley.

LLS CANOPY REQUIRED?:
 LLS CHAINLINKS REQUIRED?:
 QUANTITY:
 DATE:
 SIGNATURE AND STAMP:

YES

COMMENTS

The disconnect unit must be mounted to a HORIZONTAL RIGID STRUCTURE. All mounting must be able to withstand static and dynamic loading for at least 5 X weight of the fixture in all directions. This structure must be approved by others. The winch or motor assembly must be placed 6-30' away from the first pulley or disconnect unit. A pulley must be used every 6-30' of horizontal straight run. Centerline of pulley groove must be aligned with cable path. Cable path must be free from interference. Please visit our website at www.lightinglowering.com for specification-sheets if not provided with the quote. For large quantity, consider choosing manual systems with portable lowering tool for cost reduction. If the system is mounted under certain climatic conditions, please inform us. Please provide any other specifications, conditions or special requirements at this time.