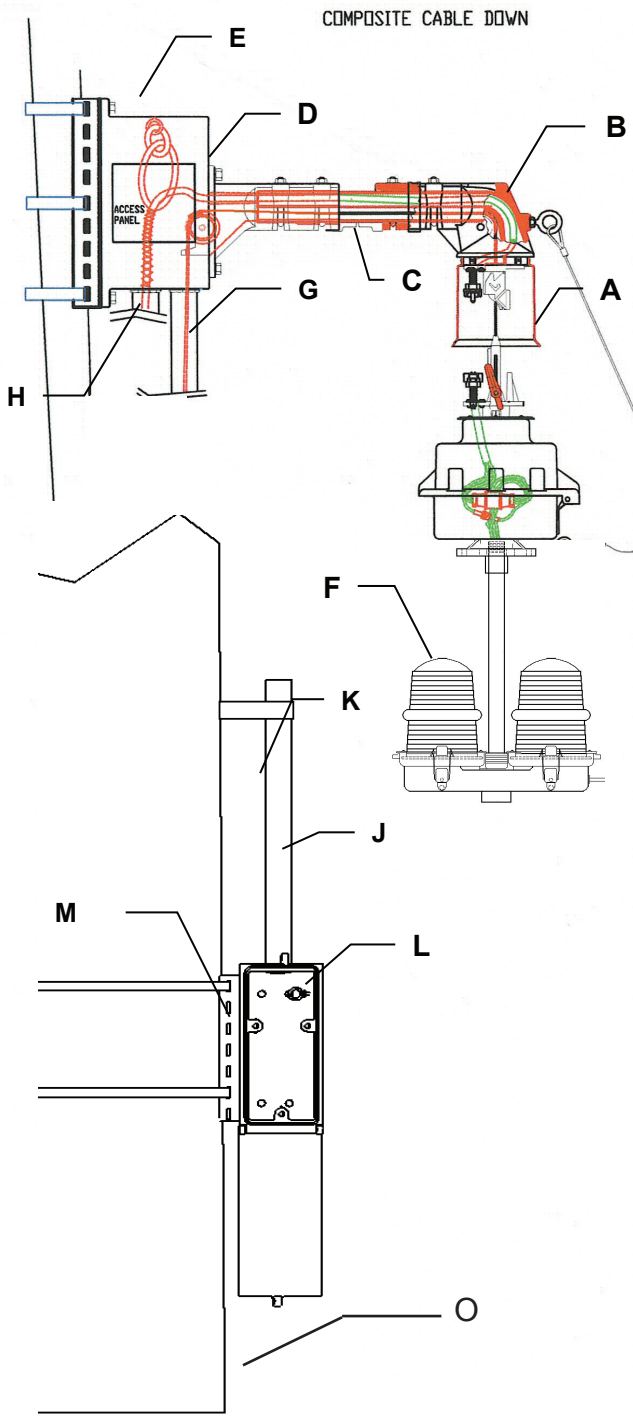


Tower/ Chimney Fixture Mount System



- A. Electrical and signal disconnect unit with multi-pin connector.
- B. Disconnect unit fitter with pulley and U-bolt mounting.
- C. Divided pipe arm: 2-3/8 in. O.D. separates control cable and electrical/Signal wires.
- D. Tower mounted fitter with pulley housing and mounting brackets to strap to tower (straps by others).
- E. Electrical cord strain relief.
- F. Aeronautical fixture (by others).
- G. Control cable constructed of 5/32 inch DIA. Stainless steel 7X19 cable.
- H. Electrical/Signal wires and connector (by others). Optional 1 PCE electrical/Signal cable from disconnect unit to base.
- J. 1.5" conduit (by others).
- K. Conduit clamps every 10 FT. (by others).
- L. Cast aluminum security locking box. (lock by others).
- M. Stainless steel mounting brackets with slots for strapping to pole or other structure.
- N. Fixture guide cable, 5/32" stainless steel allowing fixture to safely follow guide to ground.
- O. Tower/Chimney (by others).
- P. Guide cable anchor in ground (by others).

OPTIONAL: POWDER COAT PAINTED FINISH.

System Specifications

Design ALS is comprised of the following major assemblies:

ELECTRICAL DISCONNECT UNIT | FIXTURE MOUNTING BRACKET | DISCONNECT UNIT FITTER | CONTROL CABLE | DIVIDED PIPE ARM | WALL MOUNTED FITTER | ELECTRICAL WIRING AND CONNECTORS | GUIDE CABLE

Electrical Disconnect Unit

3-way tracking guide and support

Constructed of precision cast high strength aluminum alloy. A permanently fixed position piece incorporating a special tracking guide system, the 'maze', permitting the moveable portion of the Disconnect Unit to align in the same position every time the system is operated. This eliminates the need to re-orient the fixture. Twin high strength notches secure the load of the Lower Contact Assembly and fixture and work with the tracking guide system to assure stability.

Disconnect Unit Cover

One piece hydro-spun heavy gauge aluminum steel cover.

Guide Post

Constructed of precision cast high strength stainless steel. Utilizes cast-in-place guide bar for precise alignment of Lower Contact Assembly with the fixed portion of the Disconnect Unit.

Twin Tracking Support Arms

Made of precision cast high strength stainless steel. Dual arms provide balanced stability of the Disconnect Unit. When locked in the 3-WayTracking Guide and Support notches, the Twin Tracking/Support Arms hold the weight of the light fixture and components, removing all tension from the Control Cable.

Lower Contact Assembly

Constructed of precision cast high strength aluminum alloy. Features cast-in-place guide that mates with the fixed portion of the Disconnect Unit to aid in tracking and stability. All hardware used on the Lower Contact Assembly as well as on the entire Disconnect Unit, are corrosion resistant stainless steel.

Weather Sealing Gasket

Extra flexible polymer sealing gasket provides weather-tight seal between Lower Contact Assembly and Disconnect Unit Cover.

Guide Cable

The fixture shall follow the guide cable to the ground to keep the fixture from hitting the structure. The Guide Cable shall be made of 316Stainless steel 5/32 inch diameter 7 x 19 construction aircraft cable. The assembly shall also have a stainless steel turnbuckle assembly to adjust the cable length. All hardware shall be of corrosion resistant stainless steel or aluminum.

Disconnect Unit Fitter

Cast of heavy duty aluminum alloy to fit 2-3/8 inch outside diameter Divided Pipe Arm. Fitter designed to completely isolate moving Control Cable from the electrical wires. A molybdenum impregnated nylon pulley provides high strength and low resistance for the moving Control Cable thereby increasing the life of the cable. Pulley uses permanently lubricated bearing.

Divided Pipe Arm

A two inch (2-3/8 inch O.D.) schedule 80 steel pipe with galvanized finish standard. Divided entire length to keep Control Cable and electrical wires separate. Provides rigid support between the Disconnect Unit Fitter and Wall Mounted Fitter. Interlocking arm and fitters provides positive non-rotating positioning of pipe arm for all outdoor wall mounted lowering systems.

Wall Mounted Fitter

Heavy duty cast aluminum alloy to fit 2-3/8 inch O.D. Divided Pipe Arm. Utilizes cast-in-place cable stop to prevent cable connections from entering pulley. Pulley is molybdenum impregnated nylon. Two U-bolt pipe clamps rigidly hold the Divided Pipe Arm. Interlocking arm and fitters provides positive non-rotating positioning of pipe arm for all outdoor lowering systems. Fitter designed to bolt directly to the cast aluminum wall arm mounting box.

Control Cable

316 Stainless steel 5/32 inch diameter 7 x 19 construction aircraft lowering cable (See drawing of SS1110-XX).

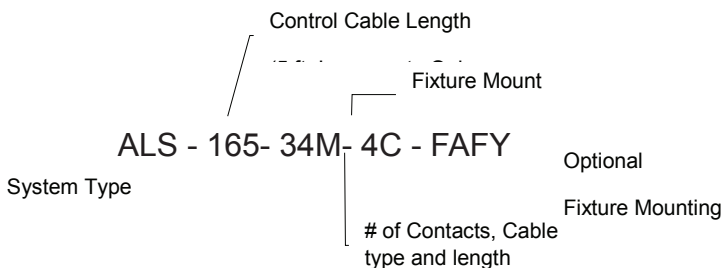
Electrical Wiring and Connectors

Systems are prewired from Disc. Unit to wall arm mounting box with 3 conductor 14AWG SEOW cord (optional 5 cond).

Vibration Test

The electrical disconnect unit shall meet or exceed sine vibration tests of 3.5 g's within the frequency range of 5-60 Hz in all three axes for minimum of six 5-minute cycle each axes. It shall meet or exceed random vibration tests of frequency range 60-1000 HZ at .025 g2/Hz applied for 30 minutes in each of the three axes. It shall have results to exhibit no electrical discontinuities greater than 10 microseconds. Tests applicable to Electrical Disconnect Unit and attached components.

Ordering Information



- Design ALS is shipped assembled and prewired.
- Standard System Finish is Aluminum and Galvanized Steel.
- Painted Finishes Available-Consult Factory.
- Lowering Tool Ordered Separately.
- Fixture Mounting Hardware, Wall and Security Lock Boxes, hardware, conduit, conduit bracket, by others.

Contact Unimar for specific catalog number codes required for your application
NOT FOR LIFTING PEOPLE OR RAISING/LOWERING OVER PEOPLE.