



## System Specifications and Ordering Information

### SYSTEM SPECIFICATIONS *Design PTS is comprised of the following major assemblies:*

- ELECTRICAL DISCONNECT UNIT
  - POLE TOP CONNECTION BOX
  - POLE MOUNTED FITTER AND ADAPTER
  - ELECTRICAL WIRING AND CONNECTORS
- FIXTURE CONNECTION BOX
  - DIVIDED PIPE ARM
  - DISCONNECT UNIT FITTER
  - CONTROL 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 thereby eliminating 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.

**ELECTRICAL CONTACTS:** Standard electrical disconnect unit equipped with two electrical contacts and means for body and shell grounding.

*Upper Fixed Contacts* are heavy duty cast brass post type with rectangular cross section.

*Lower Contacts* move with the light fixture during the lowering operation and are electrically dead when the fixture is lowered. Constructed of spring tempered beryllium copper. Contacts have barrel and set screw wire terminations for 16 AWG-8 AWG. Contact sets are self-cleaning and designed to limit arcing when contacts are engaged or disconnected under electrical load.

*Insulators* are of high dielectric withstanding nylon. They have interlocking features for the precise alignment of the contacts within the disconnect unit.

**DISCONNECT UNIT COVER:** One piece hydro-spun heavy gauge aluminum. Hydro-spun stainless steel cover optional.

**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-Way Tracking Guide and Support notches, the Twin Tracking/Support Arms hold the weight of the light fixture and components and removes 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 the entire Disconnect Unit is corrosion resistant stainless steel.

**WEATHER SEALING GASKET:** Extra flexible polymer sealing gasket provides weather-tight seal between Lower Contact Assembly and Disconnect Unit Cover.

#### 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 2 inch (2-3/8 inch O.D.) 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 Pole Mounted Fitter. Interlocking arm and fitters provides positive non-rotating positioning of pipe arm for all outdoor pole and wall mounted lowering systems. See "How It Works" Section 100.

#### POLE MOUNTED FITTER AND ADAPTER

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. Fitter designed to bolt directly to a 4 inch diameter pole top tenon using an adapter provided.

#### RAISING AND LOWERING CONTROL CABLE

Stainless steel 5/32 inch diameter 7 x 19 construction flexible cable.

#### FIXTURE CONNECTION BOX

Fixture connection box provided with Disconnect unit, allowing fixture to be tested at EPA: .21 sq. ft. ground level before raising fixture to the top.

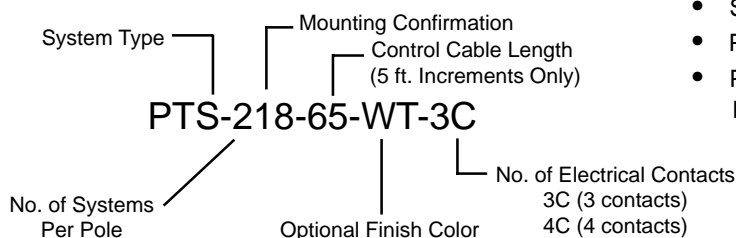
#### POLE TOP CONNECTION BOX

Cast aluminum round connection chamber and removable top cap to fit 4 inch O.D. pole top tenon. Equipped with one cord strain relief for each lowering system.

#### ELECTRICAL WIRING AND CONNECTORS

Systems are prewired with connectors for easy installation

### ORDERING INFORMATION



- Design PTS is shipped assembled and prewired.
- Standard System Finish is Raw Aluminum and Galvanized Steel.
- Pole, Light Fixture, and Lowering Tool ordered separately.
- Pole Wiring, Fixture Mounting Hardware, Pole Base and related hardware by others.

Contact **LIGHTING & LOWERING SYSTEMS** for specific catalog number codes required for your application  
**NOT FOR LIFTING PEOPLE OR THINGS OVER PEOPLE.**  
 SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.