

## SECTION 26 27 26

### WIRING DEVICES

#### PART 1 PRODUCTS

##### 1.01 ACCEPTABLE MANUFACTURERS

- A. Wall switches, receptacles and plates shall be of the same manufacturer insofar as possible.
- B. Wall switches shall be manufactured by:
  - 1. Hubbell
  - 2. Leviton
  - 3. Eaton
  - 4. Legrand
  - 5. STI
- C. Products shall comply with Federal Specification W-S-896G.

##### 1.02 TOGGLE SWITCHES

- A. 120/277-volt wall switches shall be commercial grade rated 20 amperes and shall be quiet, quick-make, quick-break with toggle handle, and totally enclosed case.
- B. Two-pole, three-way and four-way switches shall be of the same construction.
- C. Key-operated switches shall be Hubbell as above with locking-type mechanism.
- D. Switches with pilot light shall be the same as above, except that switches shall be equipped with and connected to an integral pilot light.
- E. Switch color to be ivory unless otherwise specified. Verify color with architect prior to ordering.
- F. Switch for life safety circuits shall be red.
- G. Grounding screw on all devices.

##### 1.03 WALL-BOX DIMMERS

- A. Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on-off switches, with audible frequency and EMI/RFI suppression filters.
- B. Control: Continuously adjustable slider; with single-pole or three-way switching. Comply with UL 1472.
- C. LED Dimmer Switches, 0-10V Type: Modular; compatible with 0-10V dimmer drivers; dimmer-driver combination capable of consistent dimming with low end not greater than 10 percent of full brightness.
- D. LED Dimmer Switches, Electronic Phase Dimming Type: Modular, compatible with non 0-10V drivers capable of consistent dimming with low end not greater than 10 percent of full brightness. Dimmer and LED driver shall be rated for use in combination.

#### PART 2 PRODUCTS

##### 2.01 MATERIALS

- A. Smooth Metal: Stainless steel in all locations unless otherwise directed.
- B. Smooth Lexan: Only as approved by DPS.
- C. Cast Metal or Aluminum: Die-cast profile, ribbed for strength, flash removed, primed with gray enamel.
- D. Gaskets: resilient rubber or closed-cell foam urethane.
- E. Weatherproof: Cast metal or aluminum, gasketed; provide spring-loaded gasketed covers. All devices in areas subject to frequent use shall be "in-use" type of covers.

- F. Materials shall comply with Federal Specification W-C-596H.
- G. Receptacles shall be heavy-duty industrial-grade and shall be of the grounding type. Provide grounding screw.
- H. Tamper resistant receptacles shall be factory marked per NEMA and NEC requirements.
- I. Device color to be ivory unless otherwise specified. Verify color with architect prior to ordering.
- J. Device color for life safety circuits shall be red.
- K. Isolated ground receptacles shall be marked with an orange triangle or shall be orange in color.
- L. Emergency power off push button switches shall be type STI SS-2201PO or equivalent.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Switches shall be arranged singularly or in gangs, and within 18” of the door jamb on the strike side of the door openings. Verify the door swings with the architectural drawings prior to rough-in.
- B. Install life safety system switches separately from normal power switches. Do not include in the multiple-gang configuration.
- C. Switch and receptacle combinations shall be as above in a two-gang box where both are of the same voltage. Provide separate boxes where different voltages are present.
- D. All switches in mechanical rooms, electrical rooms and other such places shall be a lighted-handle, single-pole light switch(es) as required.
- E. Wall box dimmer switches installed in multiple gangs shall be rated for connected load, with deration factored in for ganged installation.
- F. Where wall box dimmers and toggle switches are ganged together, all switches shall be of similar design for appearance and matching finish.
- G. Provide circuit and panelboard identification on outside of all switch plates per Section 260553 Identification for Electrical Systems.
- H. Install device plates for all outlet boxes and including empty outlet boxes.
- I. All light switch device plates in classrooms shall be labeled with circuit and panel identification on the lights controlled. Light switches shall be labeled as to lights controlled. Receptacles shall be labeled with source circuit. All other device plates shall be labeled per direction in Section 260553 Identification for Electrical Systems.
- J. Lighting controls installed in ganged combinations shall have single cover plate.
- K. Lighting controls installed in ganged cover plates shall have identification of items controlled labeled on cover at each switch.
- L. Over-counter devices shall be horizontally-mounted, neutral side up.
- M. Switch and receptacle combinations shall comply with Toggle Switches, this Section.
- N. Where convenience outlets or similar devices are installed within one stud-spacing width from a switch, the convenience outlet and switch shall align vertically.
- O. Provide separate green ground wire for all isolated ground receptacles.
- P. Provide tamper resistant receptacles in all ECE, pre-school, kindergarten, elementary school classrooms and all areas where pre-school to elementary age school students have access.
- Q. Provide heavy-duty commercial-grade receptacles in all areas.
- R. Vertical-mounted receptacles to be installed with the ground side up.
- S. Provide circuit and panelboard identification on the outside of all receptacle plates per Section 260553 Identification for Electrical Systems.

**END OF SECTION 26 27 26**