

SUGGESTED SPECIFICATION
For
918 Remote Control Switches

1. The remote control switch shall be electrically operated by a dual – acting, single solenoid mechanism that is inherently and mechanically held in both the open and closed positions. The main contacts shall be power driven in both directions. Positive locking of contact positions shall not be dependent on gravity, hooks, latches, or semi – permanent magnets.
2. The remote control switch shall be capable of operating in any position. Provisions shall be incorporated for manual operation during inspection and maintenance.
3. The remote control switch shall be Underwriters Laboratories listed under UL 508. Main contacts shall be double break, continuous – duty rated 30 amperes to 600 volts AC, 60Hz, and be marked for ballast lighting (electric discharge lamps), tungsten (current rating for tungsten lighting applications is 20 amperes to 250 volts AC), and general purpose loads.
4. The remote control switches shall be provided with clamp – type, self – rising terminal plates for solderless connection of line, load and control conductors. Terminals shall accept a wire range of # 18 AWG to # 10 AWG CU.
5. The number of poles, up to a maximum of 12, on a single remote control lighting contactor, shall be provided as indicated on the plans.
6. The remote control switches shall be UL listed for the following short – circuit withstand ratings when coordinated with a UL – listed molded case circuit breaker rated 30 amperes:

22,000 amps rms symmetrical, 250 volts, 60Hz
14,000 amps rms symmetrical, 480 volts, 60Hz
10,000 amps rms symmetrical, 600 volts, 60Hz
7. The operating coil and main contacts shall be replicable from the front without major disassembly and visual indication shall be provided for each contact.
8. Provisions shall be included to permit remote pilot lamp – type visual indication without the necessity for auxiliary contacts or additional wiring.

***Note Spec Writer:** *The following section is optional and should be deleted if not required.*

The specification writer should add one or more of the following paragraphs numbered 9a, 9b, 10a, or 10b. If auxiliary contacts or control modules are required.

Auxiliary contacts would be specified if isolated circuit indication is required for main contact position, as may required in building management systems.

Control modules would be specified if interfacing with special circuits is required.

- 9a. Provide as auxiliary Form C single – pole, double throw contact as part of the remote control as part of the remote control switch to indicate position of the main contacts. The auxiliary contacts shall be rated 10 amperes, 1/3hp at 277 volts AC; 0.5 amperes, at 125 volts DC and 0.25 amperes at 250 volts DC.
- 9b. Provide a quantity of two auxiliary Form C single – pole double throw contacts as part of the remote control switch to indicate position of the main contacts. The auxiliary contacts shall be rated 10 amperes, 1/3 hp at 277 volts AC; 0.5 amperes at 125 volts DC and 0.25 amperes at 250 volts DC.
- 10a. **Two – Wire Control Module** – A two – wire type interface control module shall be supplied wired and mounted directly to the remote control switch. The control voltage and wiring shall be as shown on the drawings. The control module shall be UL listed and be suitable for an operating voltage range of 80 to 125 percent of nominal and operate over an ambient temperature range of 0° C to 45° C.
- 10b. **Three – Wire Control Module** – A three– wire type interface control module shall be supplied wired and mounted directly to the remote control switch. The control voltage and wiring shall be as shown on the drawings. The control module shall be UL listed and be suitable for an operating voltage range of 80 to 125 percent of nominal and operate over an ambient temperature range of 0° C to 45° C.