



INFINITE SWITCH HOUSINGS

Receptacle Housings For M-Style Infinite Switches

PRODUCT DESCRIPTION

TE Connectivity (TE) introduces three and four position housings for use with M-style infinite switches. Infinite switches are rotary switches commonly used to control resistive heating elements. They are used on electric cooking ranges, space heaters, hot plates and similar applications. The M-style switches from a leading controls manufacturer are broadly used. These switches provide as many as seven .250 tabs for connections. TE's new receptacle housings for M-style infinite switches are designed for Positive Lock Mark II receptacles, but also accept FASTON receptacles. Unlike some competitive housings, the new TE housings can accept one or up to 2 14 AWG wires.

KEY FEATURES

- Three and four position, nylon 6/6 housings for use with straight Positive Lock Mark II receptacles or straight FASTON receptacles
- Electrically insulate terminals
- Operating temperature ranges from -40 to 130°C
- Allow as many as four connections to be made at once, potentially speeding this step of assembly
- May help prevent mis-mating in the application
- Improve ergonomics for assembly workers
- Are UL recognized (file E28476) for the U.S. and Canada when used with designated receptacles

APPLICATIONS

- Electronic cooking ranges
- Space heaters
- Hot plates
- Other applications where resistive heating elements are controlled with M-style infinite switches

BASIC PRODUCT DETAILS FOR ACCEPTABLE HOUSINGS

- 250 series, straight, Positive Lock Mark II receptacle terminals on wire can be inserted into the housings
 - These low insertion force receptacles incorporate a feature that latches onto the tab with a tactile and audible click for high retention force and secure connections
 - These receptacles strongly resist disconnection when pulling force is exerted on the wire; however, pulling on the housing releases the receptacle latches and allows disconnection
- 250 series, straight, FASTON receptacle terminals on wire may also be inserted into the housings
 - Some customers may prefer to use the FASTON receptacles instead of the Positive Lock receptacles.

INFINITE SWITCH HOUSINGS

For M-Style Switches

RECEPTACLE HOUSINGS FOR M-STYLE INFINITE SWITCHES

Part Number	1969759-1	1969760-1	1969761-1
Color	Black	Natural	Natural
Position	3	3	4

Typically, a black three position housing is used along with one of the natural housings. The natural housing required varies based on the particular M-style infinite switch used in the application.



DESIGN-IN QUESTIONS

1. Are you using M-style infinite switches to control resistive heating elements in your design?
2. Would you like to apply receptacles to multiple terminals of those switches simultaneously to potentially speed up your assembly process and help reduce mis-mating errors?
3. Are you looking for a more ergonomic way to apply the receptacles to the tabs?
4. Would you like the flexibility to use either Positive Lock Mark II receptacles or FASTON receptacles when making these connections?
5. Do you need to accommodate up to two wires per receptacle in your application?

If the answers are “yes,” these new multi-position infinite switch housings with either Positive Lock Mark II receptacles or FASTON receptacles could represent a great solution for the application.

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