



# MINI FIXED STATUS

## MCS & MSCS Series



The Miniature Fixed Current Status™ Switches are designed for use in any AC current monitoring application in which you are looking for a fixed trip point to monitor the “Go/No Go” (On/Off) “Status” for a particular piece of equipment. The fixed current switches should be installed on the line side of the power to the motor, pump, compressor or other equipment. All of the miniature current switches are available in both solid and split-core versions in a smaller enclosure style than that of the A/CS2 and A/SCS2 Series fixed current switches rated for higher operating currents. The solid-core versions are a great choice for new installations or OEM applications in which cost sensitivity, lower trip points and environmental issues may be of concern. The split-core version of the current switches work great in retrofit applications and for use in service vehicles since one part will work in most applications and can be installed

without disconnecting any wires. Fixed status switches can also be used to determine the run time of your equipment when logging the contact closures on your building management system or PLC.

**Applications:** On/Off “Status” Indication, Local Alarms such as Strobes/Audible Alarms, Pumps, Fans, Compressors, Lighting Status and Usage Information, Ovens, Process Control, Industrial Equipment, OEM Opportunities

**The Miniature Fixed Current “Status” Switches are covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, [www.workaci.com](http://www.workaci.com).**

### PRODUCT SPECIFICATIONS

|   |   |
|---|---|
| <b>Monitored Current Type:</b>                              | AC Current  |
| <b>Maximum AC Voltage:</b>                                  | 600 VAC   |
| <b>Operating Frequency Range:</b>                           | 50/60 Hz  |
| <b>Core Style:</b>  | Solid-Core and Split-Core Versions available (See Ordering Grid)  |
| <b>Sensor Power:</b>  | Induced from the Monitored Conductor (Insulated Conductors only)  |
| <b>Amperage Range:</b>                                      | See Ordering Grid   |
| <b>Isolation Voltage:</b>                                   | 2200 VAC  |
| <b>Trip Point Style</b>                                     | Fixed Trip Point  |
| <b>Contact Type:</b>  | Normally-Open “N/O”   |
| <b>“Status” Contact Rating:</b>                             | 0.5A Continuous @ 36 VAC/VDC  |
| <b>“Status” Contact “On” Resistance   “Off” Resistance:</b> | < 0.5 Ohms (tripped)   > 1 Meg Ohms (Open)  |
| <b>Response Time:</b>                                       | <b>A/MCS:</b> < 50 mS typical   <b>A/MSCS:</b> < 40 mS typical  |
| <b>Aperture Size (Diameter):</b>                            | 0.53” (13.46 mm)  |
| <b>Operating Temperature Range:</b>                         | -22 to 140°F (-30 to 60°C)  |
| <b>Operating Humidity Range:</b>                            | 0 to 95%, non-condensing  |
| <b>Recommended Storage Temperature   RH Range:</b>          | 41 to 95°F (5 to 35°C)   40 to 85% RH, non-condensing   |
| <b>Enclosure Material   Flammability Rating:</b>            | PC/ABS (Polycarbonate/ABS Blend)   UL94-V0  |
| <b>Wiring Connections:</b>                                  | 2 Position Screw Terminal Block (Not Polarity Sensitive)  |
| <b>Wire Size:</b>   | 16 to 22 AWG (1.31 mm <sup>2</sup> to 0.33 mm <sup>2</sup> ) Copper Wires only  |
| <b>Terminal Block Torque Rating:</b>                        | 4.43 to 5.31 in.-lbs. (0.5 to 0.6 Nm)   |
| <b>Minimum Mounting Distance:</b>                           | 1” (2.6 cm) between current switch (Relays, Contactors, Transformers)   |
| <b>Agency Approvals:</b>                                    | UL/CUL US Listed (UL 916) Energy Management Equipment (File # E334792), CE, RoHS2, WEEE   |
| <b>Product Weight:</b>                                      | <b>A/MCS:</b> 0.15 lbs. (0.068 kg)   <b>A/MSCS:</b> 0.20 lbs. (0.091 kg)  |
| <b>Product Dimensions (L x W x H):</b>                      | <b>A/MCS (Solid-Core):</b> 2.510” (63.82 mm) x 0.940” (23.94 mm) x 2.000” (50.80 mm)<br><b>A/MSCS (Split-Core):</b> 2.650” (67.19 mm) x 0.940” (23.94 mm) x 2.380” (60.49 mm) |

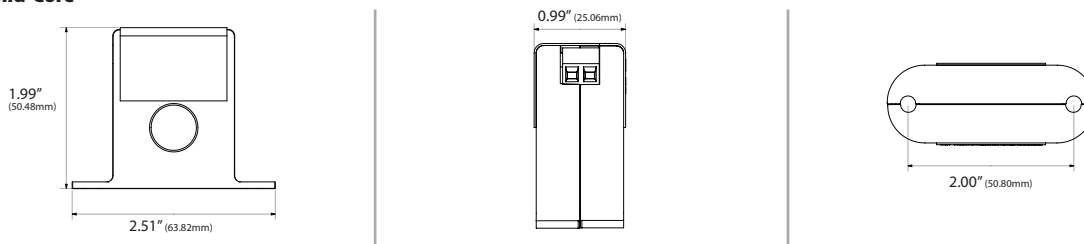
**Note:** Maximum wire length not to exceed 98.4 Feet (30 meters) in order to meet the CE Requirements



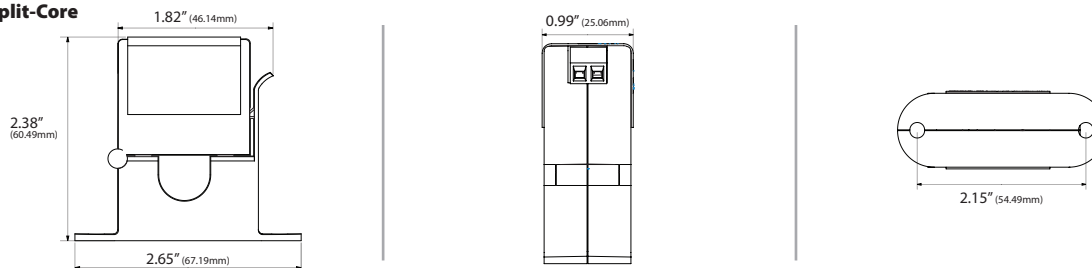


**DIMENSIONAL DRAWING**

**Solid-Core**



**Split-Core**



**Front View**

**Right View**

**Bottom View**

**STANDARD ORDERING**

Model # Example: **A/MCS** -OR- **117852**

| Model #       | Item # | Trip Point Type  | N/O | Solid-Core | Split-Core | Amp Range | Trip Point    | Contact Rating   |
|---------------|--------|------------------|-----|------------|------------|-----------|---------------|------------------|
| <b>A/MCS</b>  | 117852 | Fixed Trip Point | •   | •          |            | 0 to 150A | 0.20A or less | 0.5A @ 36VAC/VDC |
| <b>A/MSCS</b> | 117853 | Fixed Trip Point | •   |            | •          | 0 to 150A | 0.55A or less | 0.5A @ 36VAC/VDC |

**Note:** The Miniature Fixed Current Switches are not intended to be used in Life / Safety Applications or in Hazardous / Classified Locations

