



M-SWITCH, R-SWITCH

Microcontroller Based Switch

The M-Switch is a microcontroller based digital transmitter, which can provide a switch input for M-Controller System and Q4 Controller System to actuate or reset any assigned outputs, such as Relays, Buzzers and Strobe. M-Switch converts Switch Status to gas concentration and communicates with Controller System. It occupies one digital sensor address in the Controller System and works as a manual override switch to turn on a relay at the M-Controller or Q4C. The M-Switch has one switch onboard and contains two terminal blocks for connecting Remote Switches. An R-Switch connected to the Remote Switch Terminal Block, will have the

same function as the M-Switch. If an R-Switch is connected to the Reset Switch Terminal Block, the R-Switch will be used as a reset switch to reset latched switch. the M-Switch and R-Switch not only can provide multi-switch inputs and parallel switch inputs, it also provides a way to bring other devices switch outputs to M-Controller System or Q4 Controller System, such as actuating an M-Relay by customer's emergency switch, a timer/clock status, or actuating a fan by a temperature sensor status, etc. For instance, the M-Switch can be configured as Latched outside a machinery room to be capable of starting, but not stopping ventilation.

Applications: Testing System Outputs, such as Relays, Strobe, Horn & Fans, or Manual Actuation of the System for M-Controller & Q4 Controllers

The M-Switch and R-Switch are covered by ACI's Two (2) 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.

PRODUCT SPECIFICATIONS

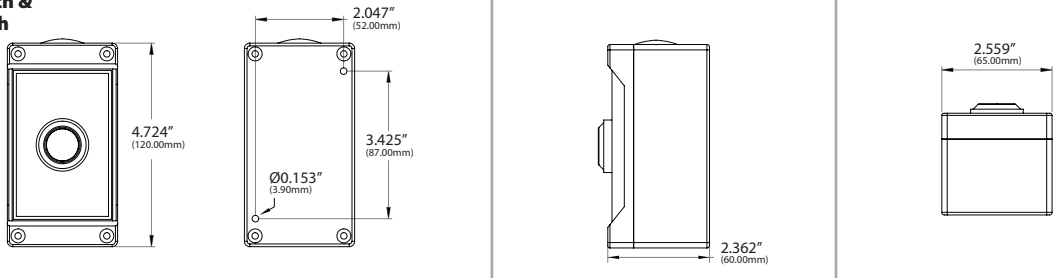
Input Voltage:	24 VDC nominal, range 18 to 30 VDC; 24 VAC nominal, range 15 to 24 VAC 50/60 HZ AC must not be grounded
Wiring Connections:	De-Pluggable Screw Terminal Blocks
Wire Size:	16 to 24 AWG (0.2047 to 1.301 mm) Shielded Twisted Pair
Terminal Block Torque Rating:	0.37 ft-lb (0.502 Nm) Nominal
Communication Wire:	Belden 9841 or comparable wire
Fuse:	F1 Very Fast-Acting Fuse
Communication Protocol:	RS-485 with OptoMux protocol for use with M-Controller or Q4 controller systems Output 0 when switch is OFF Output 9999 when switch is ON Fixed Baud rate: 4800 bps
End-Of-Line Termination:	Jumper selectable 120Ω (Default OFF)
Addressing:	0 to 31 Dip Switch selectable for M-Controller, 0 to 3 for Q4C
Indicators:	Red LED = Switch ON, TX/RX
Onboard Switch Style:	Momentary Pushbutton with Splash Cover, Meets IP 65 of IEC60529 Specification
Switch Input:	Configurable: Momentary or ON/OFF; Latching or Non-Latching
Operating Temperature:	-49 to 149°F (-45 to 65°C)
Operating RH:	5% to 95% non-condensing
Storage Temperature:	-49 to 158°F (-45 to 70°C)
Storage Humidity:	5% to 95% non-condensing
Enclosure:	IP 66 & NEMA 4, 4X, 12 & 13 Polycarbonate Flammability UL94-5 VA
Enclosure Dimensions:	(L) 4.724" (120 mm) x (W) 2.559" (65 mm) x (D) 2.362" (60 mm)
Product Weight:	0.7 lbs (0.318 kg)





DIMENSIONAL DRAWING

M-Switch & R-Switch



Front & Back Views

Right View

Top View

STANDARD ORDERING

Model # Example: **M-SWITCH** -OR- **127160**

Model #	Item #	Description
M-SWITCH	127160	Microcontroller Based Switch
R-SWITCH	140640	Extension of an M-Switch, or used to reset a Latched M-Switch in a M-Controller or Q4C Gas System