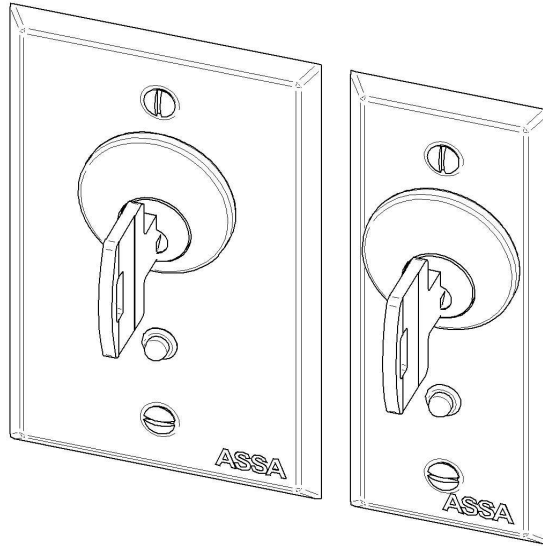




Switch Lock

ASSA MKSW MORTISE KEY SWITCH LOCKS



SWITCH OPERATIONAL SPECIFICATIONS

Description:

The ASSA MKSW Series - Mortise Switch Plates are ordered with an ASSA 1-1/8" mortise cylinder sns, sub-assembled or complete with a #5 Cam in a 26D finish. Both Standard and Narrow Stile Keyplate versions include a stainless steel cover with an installed bi-color LED. An assortment of various switch functions is available and sold separately. Up to two switches may be used on a key assembly.

Dimensions:

Standard Stile: 2-3/4" x 4-1/2" [70mm x 114.3mm]

Narrow Stile: 1-3/4" x 4-1/2" [44.5mm x 114.3mm]

LED Rating:

15mA @ 12 Volts DC

16mA @ 24 Volts DC

Switch Options and Contact Ratings:

SPDT - Momentary, 5 Amps @ 24 Volts DC

SPDT - Alternate (On/Off), 5 Amps @ 24 Volts DC

DPDT - Momentary, 5 Amps @ 24 Volts DC

DPDT - Alternate (On/Off), 5 Amps @ 24 Volts DC

Operation Temperatures:

-40F to 160F (-40C to 71C)

KEY/SWITCH OPERATION AND CONFIGURATION

The SPDT key/switch provides a single pole set of three 6" lead wires. The DPDT key/switch includes an additional pole set of three (3) 6" leads (providing a total of six (6) leads). All lead wires are 20 gauge, 7 strand. The switch is used as a monitor signal with access control equipment. The wires are color coded and functions are as illustrated below in **Figure 1.1**.

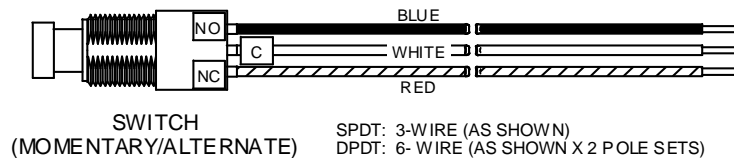


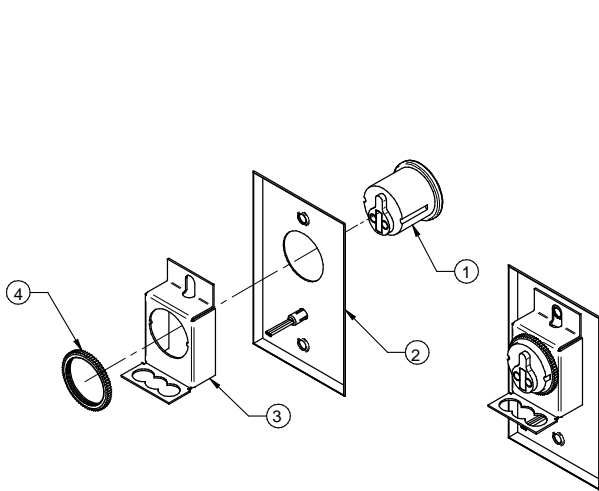
Figure 1.1



Switch Lock

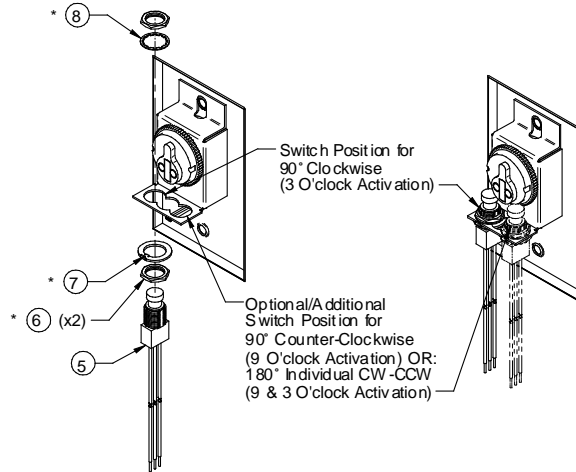
The ASSA MKSW series Mortise Key Switch has many operational configurations. The included switch can be mounted so that the key will activate the switch at the 3-O'clock or the 9-O'clock position (see **Figure 3.2**). Switches are available in SPDT or DPDT and Momentary or Alternate (On/Off) operation. An additional switch may also be applied that will allow operation at both 3-O'clock and 9-O'clock key positions. The **Momentary** version of the switch operates by the maintained depression of the switch plunger (i.e. maintained depressed=ON, relaxed=OFF). The **Alternate** version of the switch functions whenever the switch plunger is depressed and then relaxed (i.e. initial depressed/relaxed=ON, second depressed/relaxed=OFF). As a mechanical function of the cylinder the Neutral (or 12-O'clock) is the required position for insertion/removal of the key from the cylinder.

Figure 3.1 below illustrates the exploded assembly of the mechanical parts which make up the Mortise Key/Switch Unit. The itemized parts of the Key/Switch Unit include: (#1) Mortise Cylinder, (#2) Key/Switch Plate (Single Gang or Narrow Stile), (#3) Cylinder Support and (#4) Cylinder Nut (Bezel). There is only one method to correctly align the assembled parts. **Figure 3.2** shows the exploded view of the switch assembly which includes: (#5) Designated Switch, (#6) Hex Nut (2 each), (#7) Keyed Washer and (#8) Lock Washer.



Cylinder Assembly

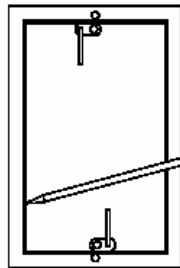
Figure 3.1



Switch Assembly

Figure 3.2

The ASSA MKSW with single gang plate is also supplied with a plastic single gang cut-in Zip Ring for drywall application. **Figure 4.1** shows the installation instructions for use. (MKSW-N does not include a mounting device for installation).



TO MARK FOR CUTTING, LAY THE MOUNTING FRAME AGAINST THE DRYWALL AND TRACE AROUND THE INSIDE WITH A PENCIL. THEN, USE YOUR DRYWALL SAW ON THE OUTSIDE OF THE LINE TO COMPENSATE FOR THE THICKNESS OF THE LIP.

Figure 4.1

The Bi-Color LED is an additional feature that is included in both keyplate styles. It provides visual status monitoring for access control equipment. For correct electrical hook-up follow the electrical diagram below in **Figure 5.1**.

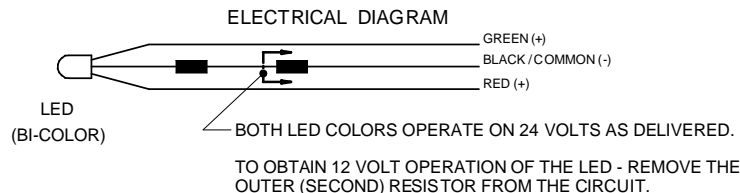


Figure 5.1