

# C&K OS Series Miniature Slide Switches

## Features/Benefits

- Variety of actuators & terminations
- PC and panel mounting
- Gold or silver plating available
- Shorting or non-shorting contacts
- RoHS compliant

## Typical Applications

- Test & measurement equipment
- Computer peripherals & network products
- Consumer products



## Specifications

CONTACT RATING: See individual parts.  
 MECHANICAL & ELECTRICAL LIFE: 10,000 cycles.  
 CONTACT RESISTANCE: 20 m  $\Omega$  or less.  
 INSULATION RESISTANCE: 100 m  $\Omega$  min. at 500 VDC.  
 DIELECTRIC STRENGTH: 500 VAC for 1 minute.  
 OPERATING TEMPERATURE: -10°C to +70°C.  
 PACKAGING: Bulk

\* For RoHS compatible switches contact customer service.

## Materials

BASE: Phenolic resin.  
 ACTUATOR: POM, black.  
 HOUSING PLATE: SPCC Sn plated.  
 MOVABLE CONTACT: Copper alloy, silver plated or gold.  
 STATIONARY CONTACTS: Brass, silver plated.  
 TERMINALS: Brass, silver plated (Gold plate - Contact customer service).  
 TERMINAL SEAL: None.

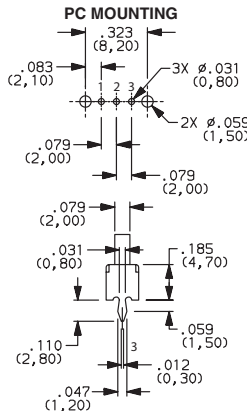
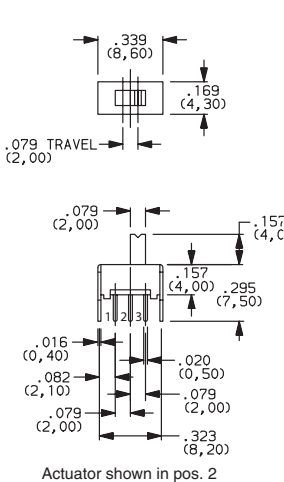
**NOTE:** For the latest information regarding RoHS compliance, please go to: [www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

## How To Order

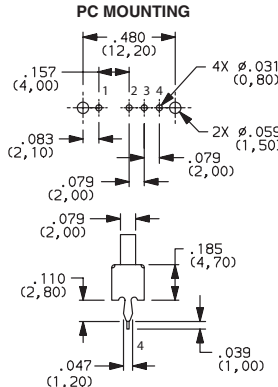
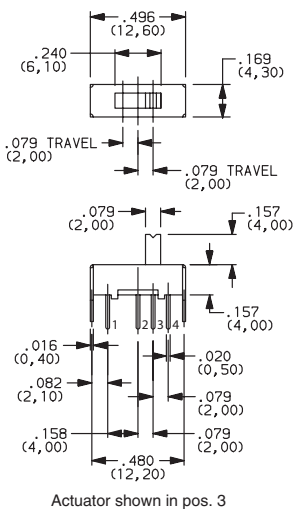
Complete part numbers for OS Series Slide Switches are shown on pages J-36 through J-42.

| PART NUMBER                            | SWITCH FUNCTION |        |
|----------------------------------------|-----------------|--------|
|                                        | POS. 1          | POS. 2 |
| <b>OS102011MS2QN1</b><br>(Non-shortng) | ON              | ON     |
| <b>OS102011MS2QS1</b><br>(Shortng)     | ON              | ON     |
| CONN. TERMINALS                        | 1-2             | 2-3    |
| SCHEMATIC                              |                 |        |
|                                        |                 |        |
| SPDT                                   |                 |        |
| CONTACT RATING: 0.1A @ 12 VDC          |                 |        |



OS102011MS2QN1  
SPDT

| PART NUMBER                              | SWITCH FUNCTION |        |        |
|------------------------------------------|-----------------|--------|--------|
|                                          | POS. 1          | POS. 2 | POS. 3 |
| <b>OS103011MS8QP1</b><br>(Non-specified) | ON              | ON     | ON     |
| CONN. TERMINALS                          | 1-2             | 2-3    | 2-4    |
| SCHEMATIC                                |                 |        |        |
|                                          |                 |        |        |
| SP3T                                     |                 |        |        |
| CONTACT RATING: 0.1A @ 12 VDC            |                 |        |        |



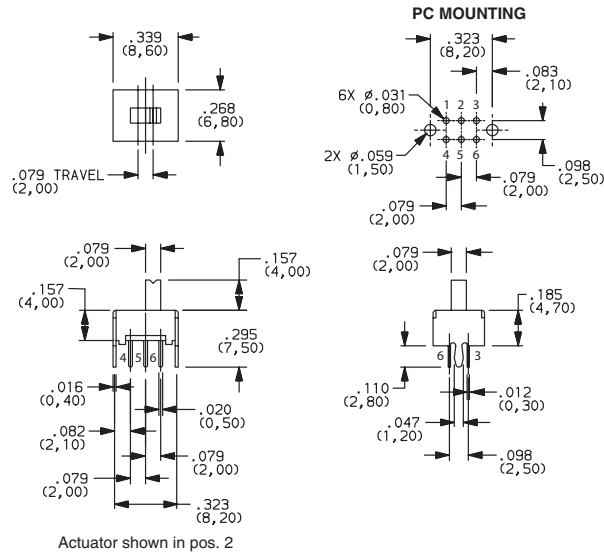
OS103011MS8QP1  
SP3T



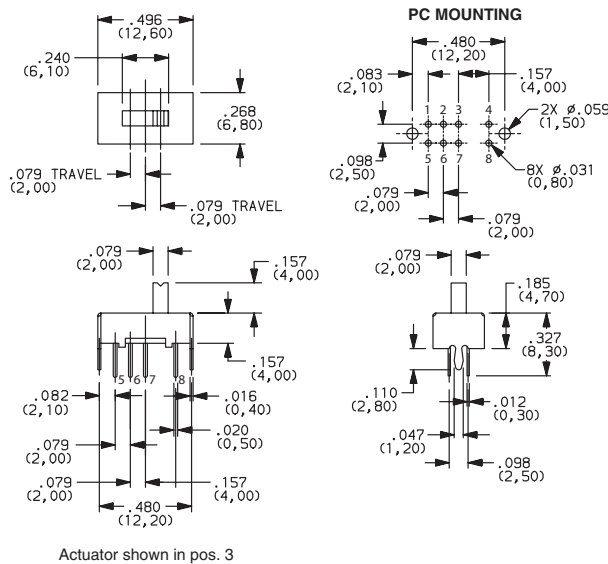
Dimensions are shown: Inch (mm)  
 Specifications and dimensions subject to change

[www.ittcannon.com](http://www.ittcannon.com)

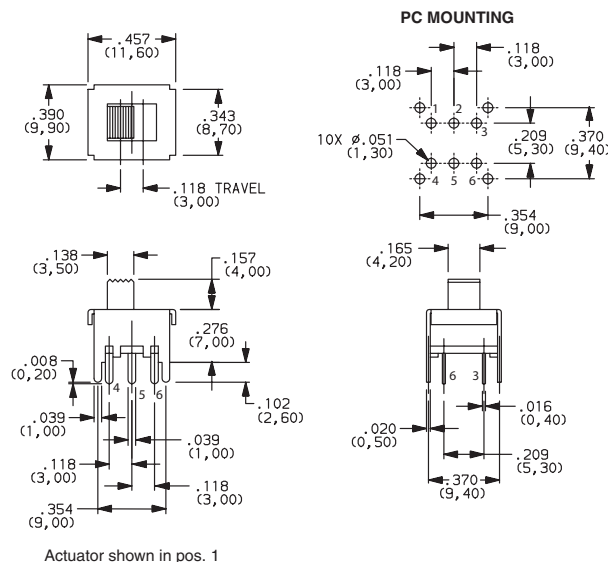
# C&K OS Series Miniature Slide Switches



| PART NUMBER                             | SWITCH FUNCTION |         |
|-----------------------------------------|-----------------|---------|
|                                         | POS.1           | POS. 2  |
| <b>OS202011MS2QS1</b><br>(Shorting)     | ON              | ON      |
| <b>OS202011MS2QN1</b><br>(Non-shorting) | ON              | ON      |
| CONN. TERMINALS                         | 1-2,4-5         | 2-3,5-6 |
| SCHEMATIC                               |                 |         |
|                                         |                 |         |
| DPDT                                    |                 |         |
| CONTACT RATING: 0.1A @ 12 VDC           |                 |         |



| PART NUMBER                              | SWITCH FUNCTION |         |         |
|------------------------------------------|-----------------|---------|---------|
|                                          | POS.1           | POS. 2  | POS. 3  |
| <b>OS203011MS1QP1</b><br>(Non-specified) | ON              | ON      | ON      |
| CONN. TERMINALS                          | 1-3,5-7         | 2-3,6-7 | 3-4,7-8 |
| SCHEMATIC                                |                 |         |         |
|                                          |                 |         |         |
| DP3T                                     |                 |         |         |
| CONTACT RATING: 0.3A @ 30 VDC            |                 |         |         |



| PART NUMBER                             | SWITCH FUNCTION |         |
|-----------------------------------------|-----------------|---------|
|                                         | POS.1           | POS. 2  |
| <b>OS202013MT5QN1</b><br>(Non-shorting) | ON              | ON      |
| CONN. TERMINALS                         | 1-2,4-5         | 2-3,5-6 |
| SCHEMATIC                               |                 |         |
|                                         |                 |         |
| DPDT                                    |                 |         |
| CONTACT RATING: 0.3A @ 30 VDC           |                 |         |

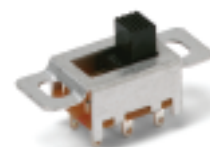
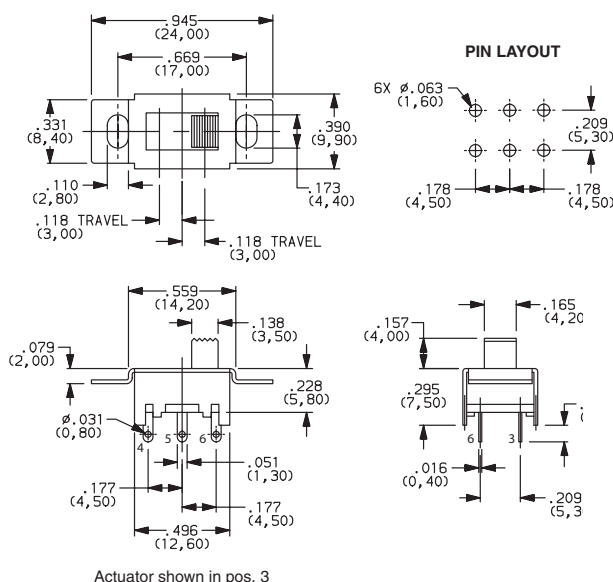


Dimensions are shown: IN (mm)  
Specifications and dimensions subject to change

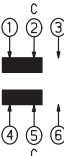
# C&K OS Series Miniature Slide Switches

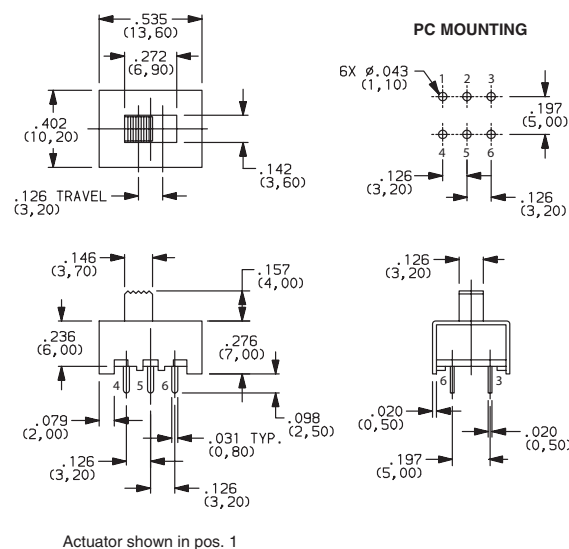
Slide

| PART NUMBER                             | SWITCH FUNCTION |        |         |
|-----------------------------------------|-----------------|--------|---------|
|                                         | POS.1           | POS. 2 | POS. 3  |
| <b>OS203013MT7QN1</b><br>(Non-shorting) | ON              | OFF    | ON      |
| CONN. TERMINALS                         | 1-2,4-5         |        | 2-3,5-6 |
| SCHEMATIC                               |                 |        |         |
| DP3T                                    |                 |        |         |
| CONTACT RATING: 0.3A @ 30 VDC           |                 |        |         |

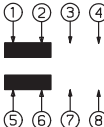


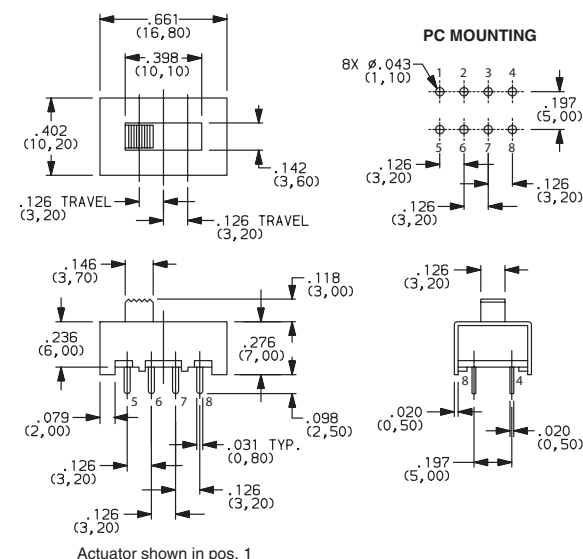
OS203013MT7QN1  
DP3T

| PART NUMBER                                                                         | SWITCH FUNCTION                                                                    |                                                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                     | POS.1                                                                              | POS. 2                                                                             |
|                                                                                     |  |  |
| <b>OS202013MT8QN1</b><br>(Non-shorting)                                             | ON                                                                                 | ON                                                                                 |
| CONN. TERMINALS                                                                     | 1-2,4-5                                                                            | 2-3,5-6                                                                            |
| SCHEMATIC                                                                           |                                                                                    |                                                                                    |
|  |                                                                                    |                                                                                    |
| DPDT                                                                                |                                                                                    |                                                                                    |
| CONTACT RATING: 0.3A @ 30 VDC                                                       |                                                                                    |                                                                                    |



OS202013MT8QN1  
DPDT

| PART NUMBER                                                                                                         | SWITCH FUNCTION                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                     | POS.1                                                                               | POS. 2                                                                              | POS. 3                                                                              |
|                                                                                                                     |  |  |  |
| <b>OS203013MT8QN1</b><br>(Non-shorting)                                                                             | ON                                                                                  | ON                                                                                  | ON                                                                                  |
| CONN. TERMINALS                                                                                                     | 1-2,5-6                                                                             | 2-3,6-7                                                                             | 3-4,7-8                                                                             |
| <div>SCHEMATIC</div> <div></div> |                                                                                     |                                                                                     |                                                                                     |
| DP3T                                                                                                                |                                                                                     |                                                                                     |                                                                                     |
| CONTACT RATING: 0.3A @ 30 VDC                                                                                       |                                                                                     |                                                                                     |                                                                                     |



OS203013MT8QN1  
DP3T

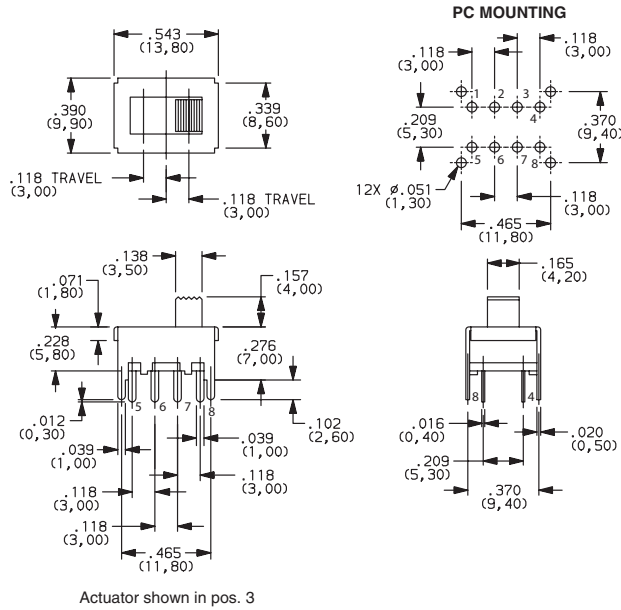


Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

# C&K OS Series Miniature Slide Switches



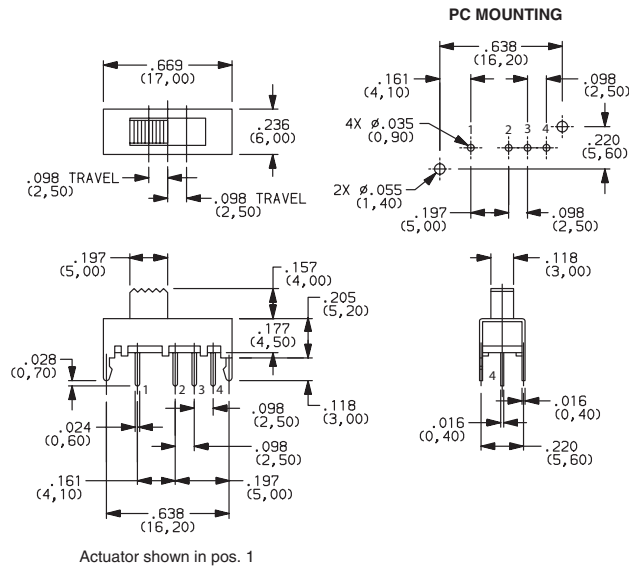
OS203013MT6QN1  
DP3T



| PART NUMBER                             | SWITCH FUNCTION |         |         |
|-----------------------------------------|-----------------|---------|---------|
|                                         | POS.1           | POS. 2  | POS. 3  |
| <b>OS203013MT6QN1</b><br>(Non-shorting) | ON              | ON      | ON      |
| CONN. TERMINALS                         | 1-2,5-6         | 2-3,6-7 | 3-4,7-8 |
| SCHEMATIC                               |                 |         |         |
|                                         |                 |         |         |
| CONTACT RATING: 0.2A @ 30 VDC           |                 |         |         |



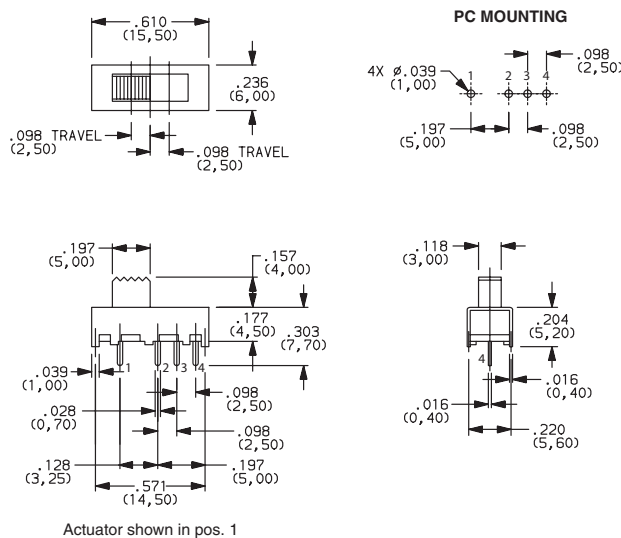
OS103012MU1QP1  
SP3T



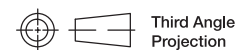
| PART NUMBER                             | SWITCH FUNCTION |        |        |
|-----------------------------------------|-----------------|--------|--------|
|                                         | POS.1           | POS. 2 | POS. 3 |
| <b>OS103012MU1QP1</b><br>(Non-shorting) | ON              | ON     | ON     |
| CONN. TERMINALS                         | 1-2             | 2-3    | 2-4    |
| SCHEMATIC                               |                 |        |        |
|                                         |                 |        |        |
| CONTACT RATING: 0.2A @ 30 VDC           |                 |        |        |



OS103012MU2QP1  
SP3T



| PART NUMBER                             | SWITCH FUNCTION |        |        |
|-----------------------------------------|-----------------|--------|--------|
|                                         | POS.1           | POS. 2 | POS. 3 |
| <b>OS103012MU2QP1</b><br>(Non-shorting) | ON              | ON     | ON     |
| CONN. TERMINALS                         | 1-2             | 2-3    | 2-4    |
| SCHEMATIC                               |                 |        |        |
|                                         |                 |        |        |
| CONTACT RATING: 0.2A @ 30 VDC           |                 |        |        |



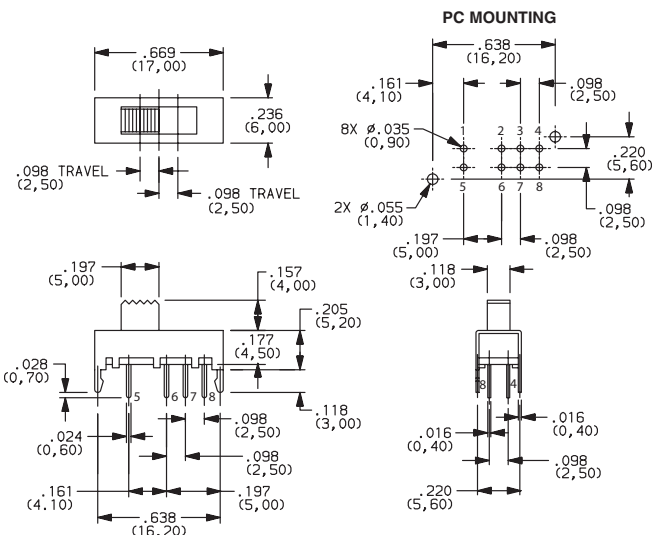
Dimensions are shown: IN (mm)  
Specifications and dimensions subject to change



Slide

# C&K OS Series Miniature Slide Switches

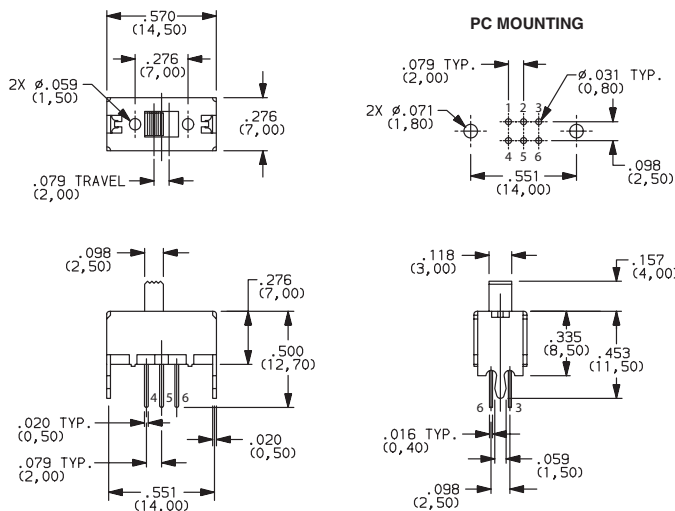
| PART NUMBER                              | SWITCH FUNCTION |         |         |
|------------------------------------------|-----------------|---------|---------|
|                                          | POS.1           | POS. 2  | POS. 3  |
| <b>OS203012MU5QP1</b><br>(Non-specified) | ON              | ON      | ON      |
| CONN. TERMINALS                          | 1-2,5-6         | 2-3,6-7 | 2-4,6-8 |
| SCHEMATIC                                |                 |         |         |
|                                          |                 |         |         |
| DP3T                                     |                 |         |         |
| CONTACT RATING: 0.1A @ 30 VDC            |                 |         |         |



OS203012MU5QP1  
DP3T

Actuator shown in pos. 1

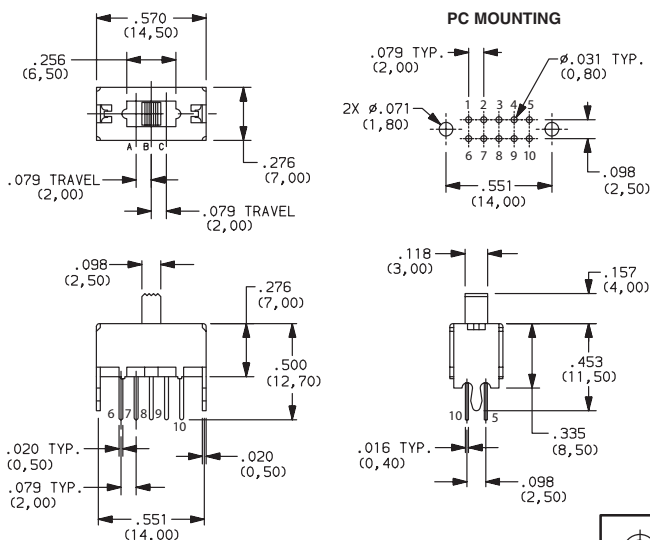
| PART NUMBER                             | SWITCH FUNCTION |         |
|-----------------------------------------|-----------------|---------|
|                                         | POS.1           | POS. 2  |
| <b>OS202011MV4QN1</b><br>(Non-shorting) | ON              | ON      |
| <b>OS202011MV4QS1</b><br>(Shorting)     | ON              | ON      |
| CONN. TERMINALS                         | 1-2,4-5         | 2-3,5-6 |
| SCHEMATIC                               |                 |         |
|                                         |                 |         |
| DPDT                                    |                 |         |
| CONTACT RATING: 0.1A @ 30 VDC           |                 |         |



OS202011MV4QN1  
DPDT

Actuator shown in pos. 1

| PART NUMBER                             | SWITCH FUNCTION  |                  |                  |
|-----------------------------------------|------------------|------------------|------------------|
|                                         | POS.1            | POS. 2           | POS. 3           |
| <b>OS203011MV9QS1</b><br>(Shorting)     | ON               | ON               | ON               |
| <b>OS203011MV9QN1</b><br>(Non-shorting) | ON               | ON               | ON               |
| CONN. TERMINALS                         | 1-2-5,<br>6-7-10 | 1-3-5,<br>6-8-10 | 1-4-5,<br>6-9-10 |
| SCHEMATIC                               |                  |                  |                  |
|                                         |                  |                  |                  |
| DP3T                                    |                  |                  |                  |
| CONTACT RATING: 0.1A @ 30 VDC           |                  |                  |                  |



OS203011MV9QS1  
DP3T

Actuator shown in pos. 2(A)

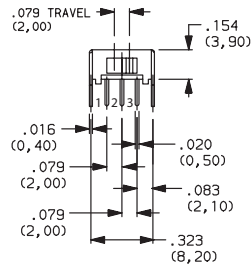
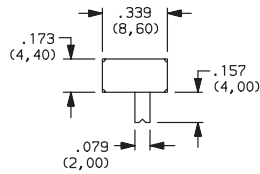


Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

# C&K OS Series Miniature Slide Switches

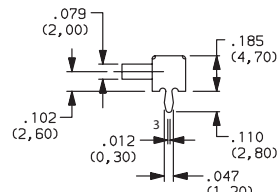
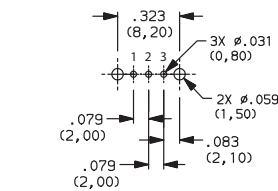


OS102011MA1QN1  
SPDT



Actuator shown in pos. 2

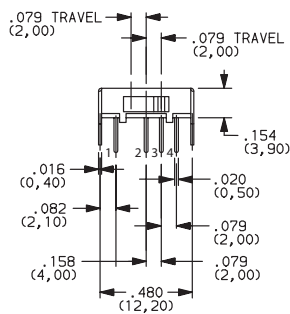
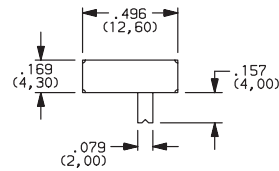
## PC MOUNTING



| PART NUMBER                             | SWITCH FUNCTION |        |
|-----------------------------------------|-----------------|--------|
|                                         | POS. 1          | POS. 2 |
| <b>OS102011MA1QN1</b><br>(Non-shorting) |                 |        |
| <b>OS102011MA1QS1</b><br>(Shorting)     |                 |        |
| CONN. TERMINALS                         | 1-2             | 2-3    |
| SCHEMATIC                               |                 |        |
|                                         |                 |        |
| SPDT                                    |                 |        |
| CONTACT RATING: 0.1A @ 12 VDC           |                 |        |

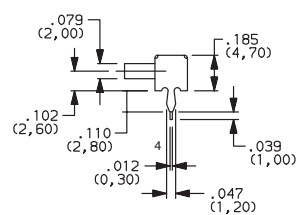
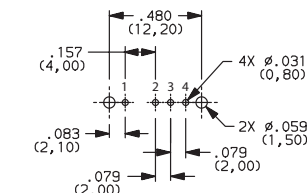


OS103011MA7QP1  
SP3T



Actuator shown in pos. 3

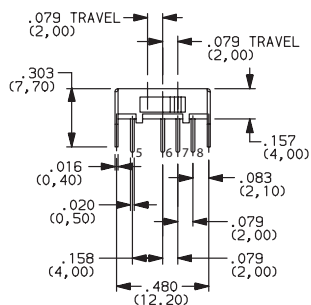
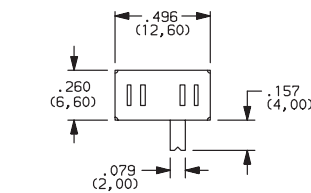
## PC MOUNTING



| PART NUMBER                              | SWITCH FUNCTION |        |        |
|------------------------------------------|-----------------|--------|--------|
|                                          | POS. 1          | POS. 2 | POS. 3 |
| <b>OS103011MA7QP1</b><br>(Non-specified) |                 |        |        |
| CONN. TERMINALS                          | 1-2             | 2-3    | 2-4    |
| SCHEMATIC                                |                 |        |        |
|                                          |                 |        |        |
| SP3T                                     |                 |        |        |
| CONTACT RATING: 0.1A @ 12 VDC            |                 |        |        |

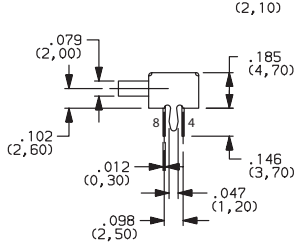
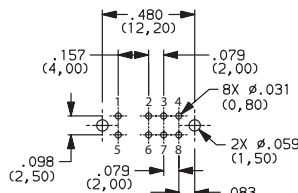


OS203011MA2QP1  
DP3T



Actuator shown in pos. 3

## PC MOUNTING



| PART NUMBER                              | SWITCH FUNCTION |         |         |
|------------------------------------------|-----------------|---------|---------|
|                                          | POS. 1          | POS. 2  | POS. 3  |
| <b>OS203011MA2QP1</b><br>(Non-specified) |                 |         |         |
| CONN. TERMINALS                          | 1-2,5-6         | 2-3,6-7 | 2-4,6-8 |
| SCHEMATIC                                |                 |         |         |
|                                          |                 |         |         |
| DP3T                                     |                 |         |         |
| CONTACT RATING: 0.1A @ 12 VDC            |                 |         |         |



Dimensions are shown: IN (mm)  
Specifications and dimensions subject to change



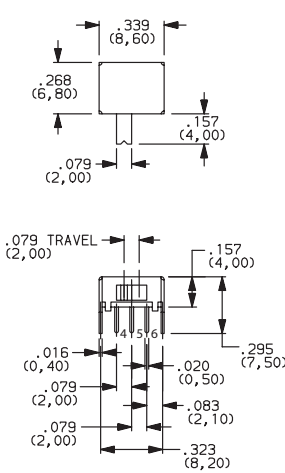
Slide

# C&K OS Series

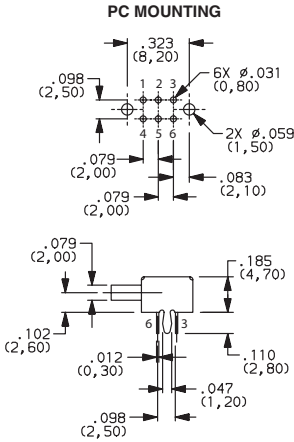
## Miniature Slide Switches

Slide

| PART NUMBER                             | SWITCH FUNCTION                                                                   |                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                         | POS.1                                                                             | POS. 2                                                                            |
|                                         |  |  |
| <b>OS202011MA0QN1</b><br>(Non-shorting) | ON                                                                                | ON                                                                                |
| <b>OS202011MA0QS1</b><br>(Shorting)     | ON                                                                                | ON                                                                                |
| CONN. TERMINALS                         | 1-2,4-5                                                                           | 2-3,5-6                                                                           |
| SCHEMATIC                               |  |                                                                                   |
| DPDT                                    |                                                                                   |                                                                                   |
| CONTACT RATING: 0.1A @ 12 VDC           |                                                                                   |                                                                                   |



Actuator shown in pos. 1



OS202011MA0QN1  
DPDT