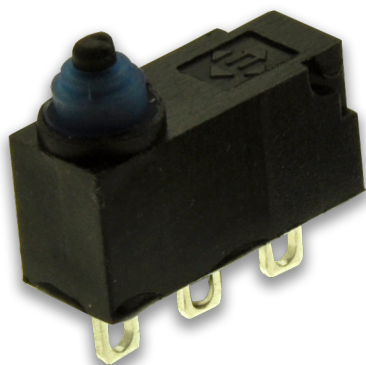


WS SERIES SNAP ACTION SWITCH

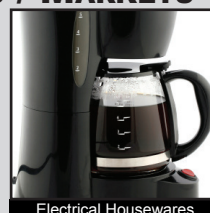
ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS



APPLICATIONS / MARKETS



HVAC



Electrical Housewares



Floor Care Appliances



White Goods



Vending Machines



Medical Equipment

RoHS

SPECIFICATIONS

Contact Rating: 0.5A @ 42VDC
1A @ 24VDC
2A @ 12VDC
3A @ 125/250VAC

Electrical Life: 10,000 Cycles

Mechanical Life: 1,000,000 Cycles

Contact Resistance: 100mΩ Max. Initial

Insulation Resistance: 100MΩ Min. @ 500VDC

Dielectric Strength: 600VAC

Operating/Storage Temperature: -25°C to 85°C

Moisture Protection: IP67

Contact Arrangement: SPDT

Actuation Force: See Table

Agency Approvals: cURus

FEATURES & BENEFITS

- Plunger or lever actuator options
- Multiple termination options
- IP67 rated

PART NUMBER CONFIGURATOR

Series	Operating Temperature	Current Rating	Actuator	Operating Force	Termination	Circuit
WS	085 - 85°C	01 - 0.5A @ 42VDC 1A @ 24VDC 2A @ 12VDC 3A @ 125/250VAC	00 - Pin Plunger 01 - 20mm Lever 02 - 15mm Simulated Roller	F050 - 50 grams with 01 lever F070 - 70 grams with 00 plunger or 02 lever	P - PCB Pins S - Solder Lug W - Wire Leads (300mm Length)	A - SPDT

Specifications subject to change without notice 3.9.2018



E-SWITCH®

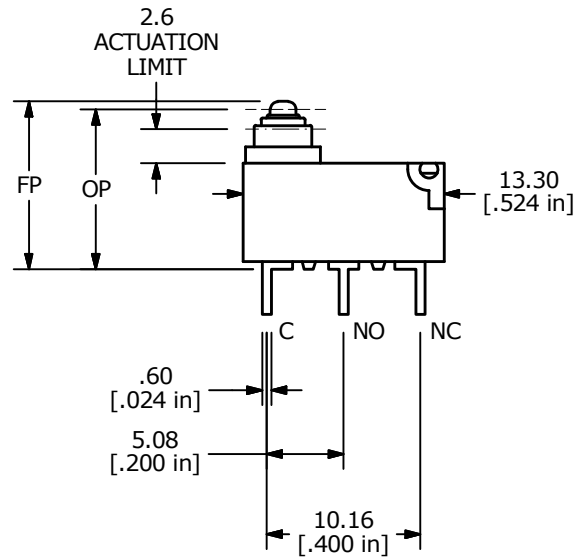
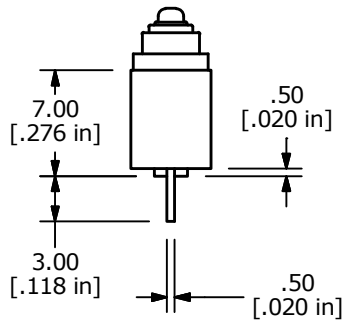
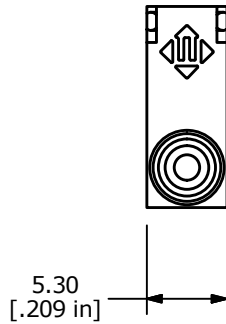
www.e-switch.com

800.867.2717

1

WS SERIES SNAP ACTION SWITCH

PCB PIN TERMINALS

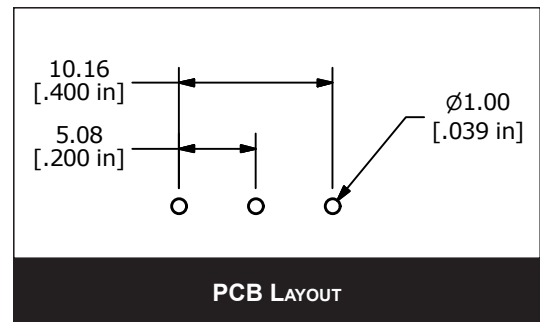


NOTE: ACTUATION BELOW THE 2.6mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

PCB TERMINALS WITH 00 PIN PLUNGER

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	11.5mm Max.	10.5±0.3mm
01	15.5mm Max.	13.3±0.8mm
02	16.0mm Max.	14.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S



ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS



E-SWITCH®

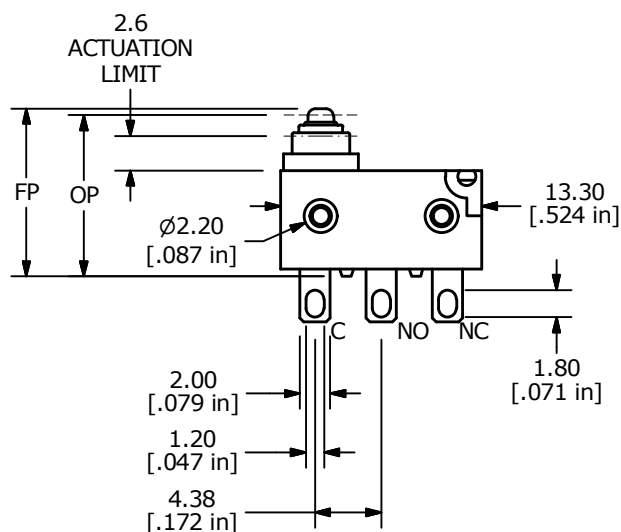
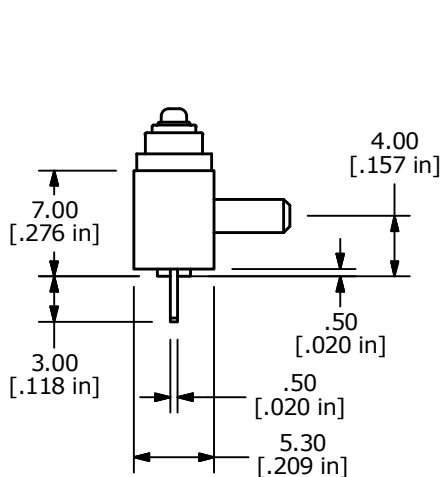
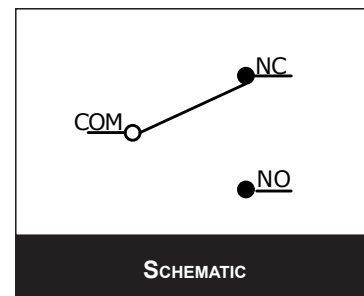
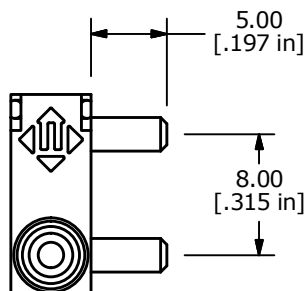
www.e-switch.com

800.867.2717

2

WS SERIES SNAP ACTION SWITCH

SOLDER LUG TERMINALS



NOTE: ACTUATION BELOW THE 2.6mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

SOLDER LUG TERMINALS WITH 00 PIN PLUNGER

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	11.5mm Max.	10.5±0.3mm
01	15.5mm Max.	13.3±0.8mm
02	16.0mm Max.	14.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S



E-SWITCH®

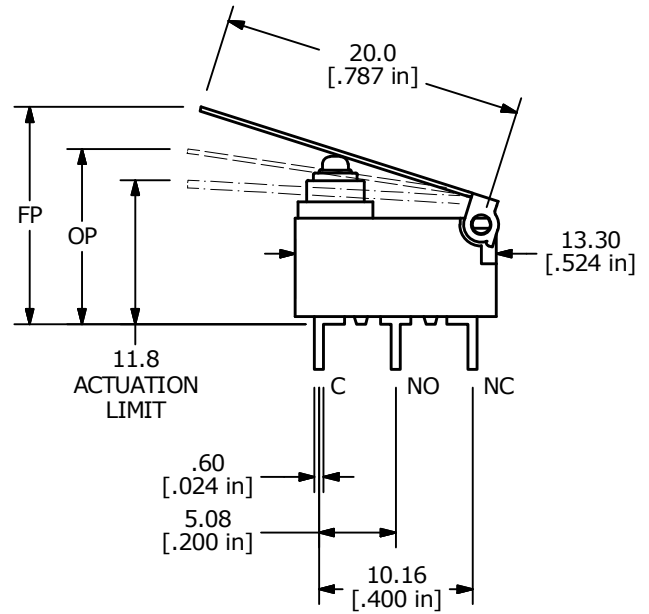
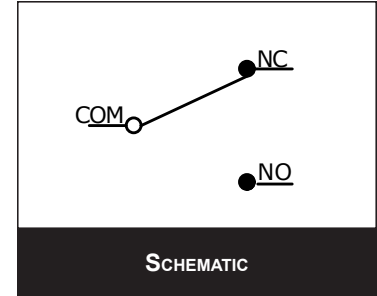
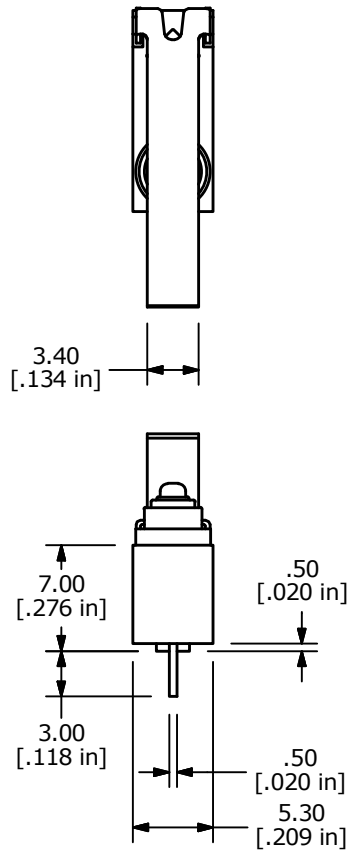
www.e-switch.com

800.867.2717

3

WS SERIES SNAP ACTION SWITCH

PCB PIN TERMINALS

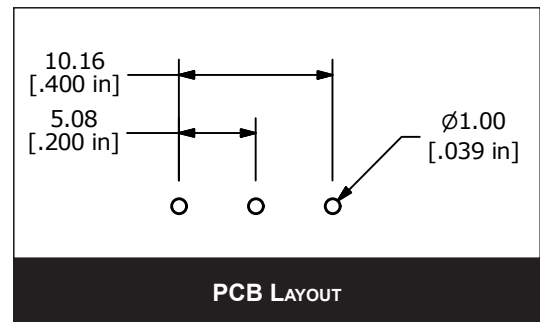


NOTE: ACTUATION BELOW THE 11.8mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

PCB TERMINALS WITH 01 LEVER

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	11.5mm Max.	10.5±0.3mm
01	15.5mm Max.	13.3±0.8mm
02	16.0mm Max.	14.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S



E-SWITCH®

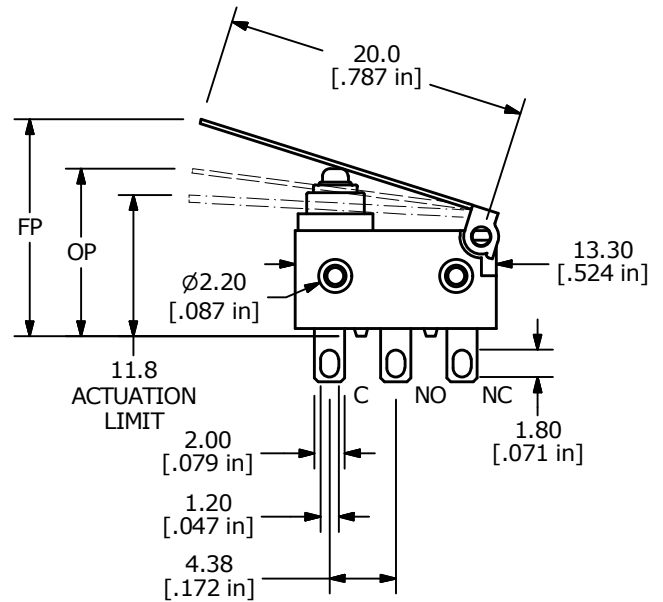
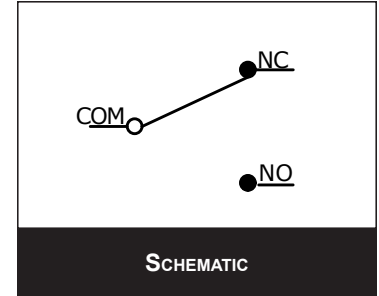
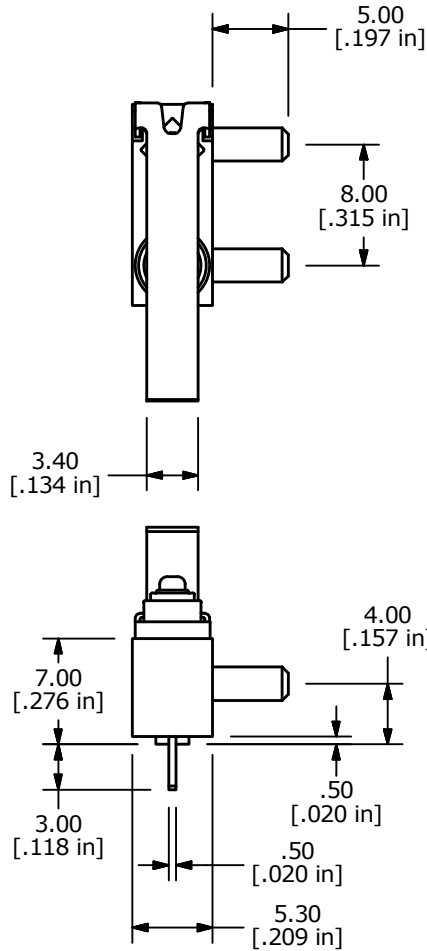
www.e-switch.com

800.867.2717

4

WS SERIES SNAP ACTION SWITCH

SOLDER LUG TERMINALS



NOTE: ACTUATION BELOW THE 11.8mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

SOLDER LUG TERMINALS WITH 01 LEVER

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	11.5mm Max.	10.5±0.3mm
01	15.5mm Max.	13.3±0.8mm
02	16.0mm Max.	14.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S



E-SWITCH®

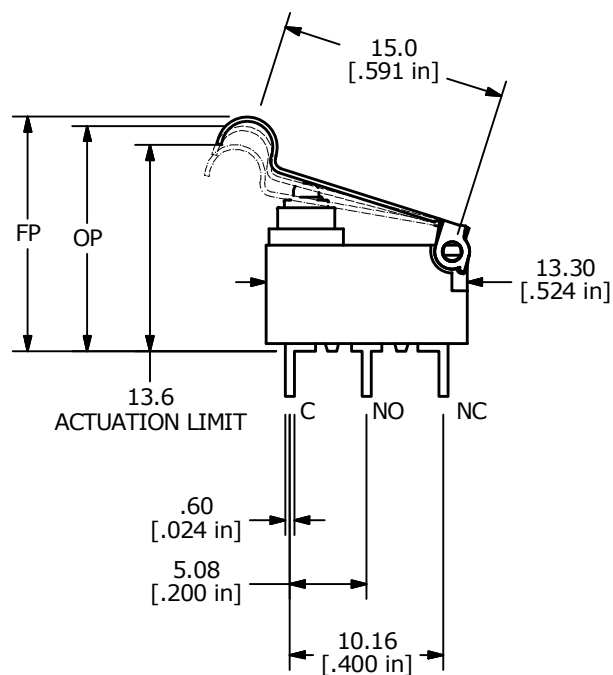
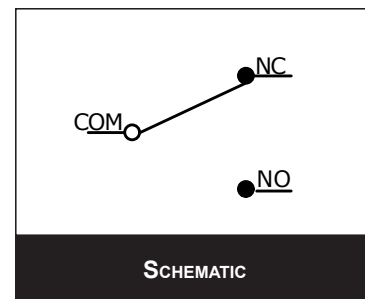
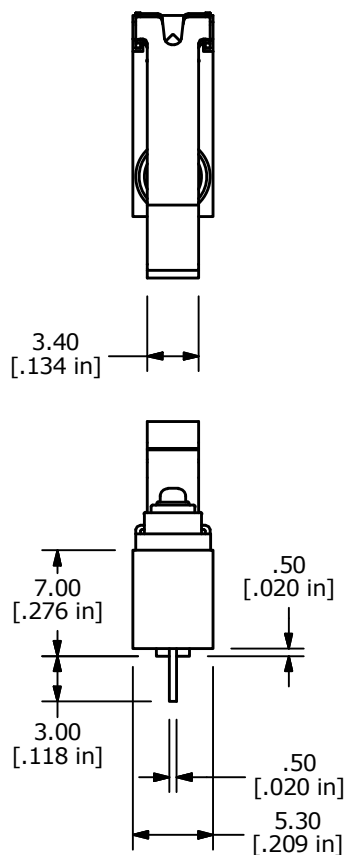
www.e-switch.com

800.867.2717

5

WS SERIES SNAP ACTION SWITCH

PCB PIN TERMINALS

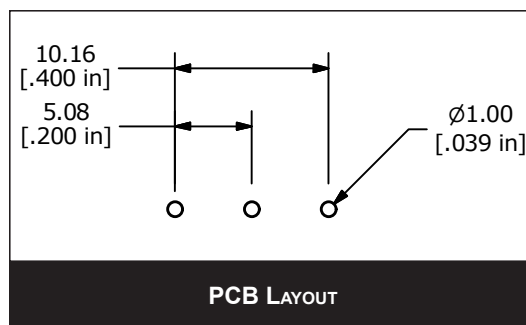


NOTE: ACTUATION BELOW THE 13.6mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

PCB TERMINALS WITH 02 LEVER

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	11.5mm Max.	10.5±0.3mm
01	15.5mm Max.	13.3±0.8mm
02	16.0mm Max.	14.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S



E-SWITCH®

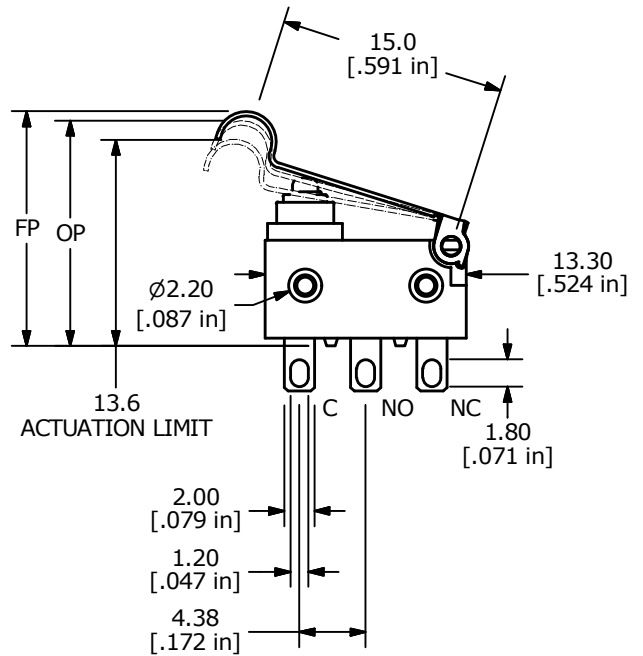
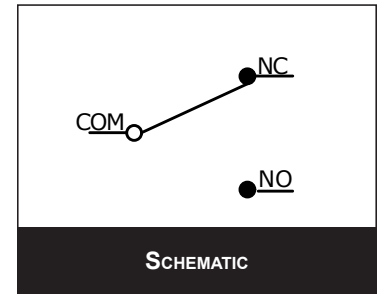
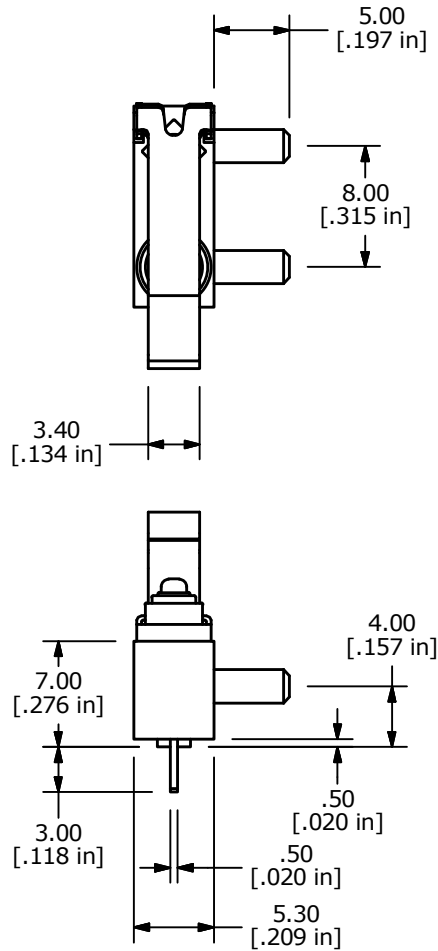
www.e-switch.com

800.867.2717

6

WS SERIES SNAP ACTION SWITCH

SOLDER LUG TERMINALS



NOTE: ACTUATION BELOW THE 13.6mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

SOLDER LUG TERMINALS WITH 02 LEVER

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	11.5mm Max.	10.5±0.3mm
01	15.5mm Max.	13.3±0.8mm
02	16.0mm Max.	14.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S



E-SWITCH®

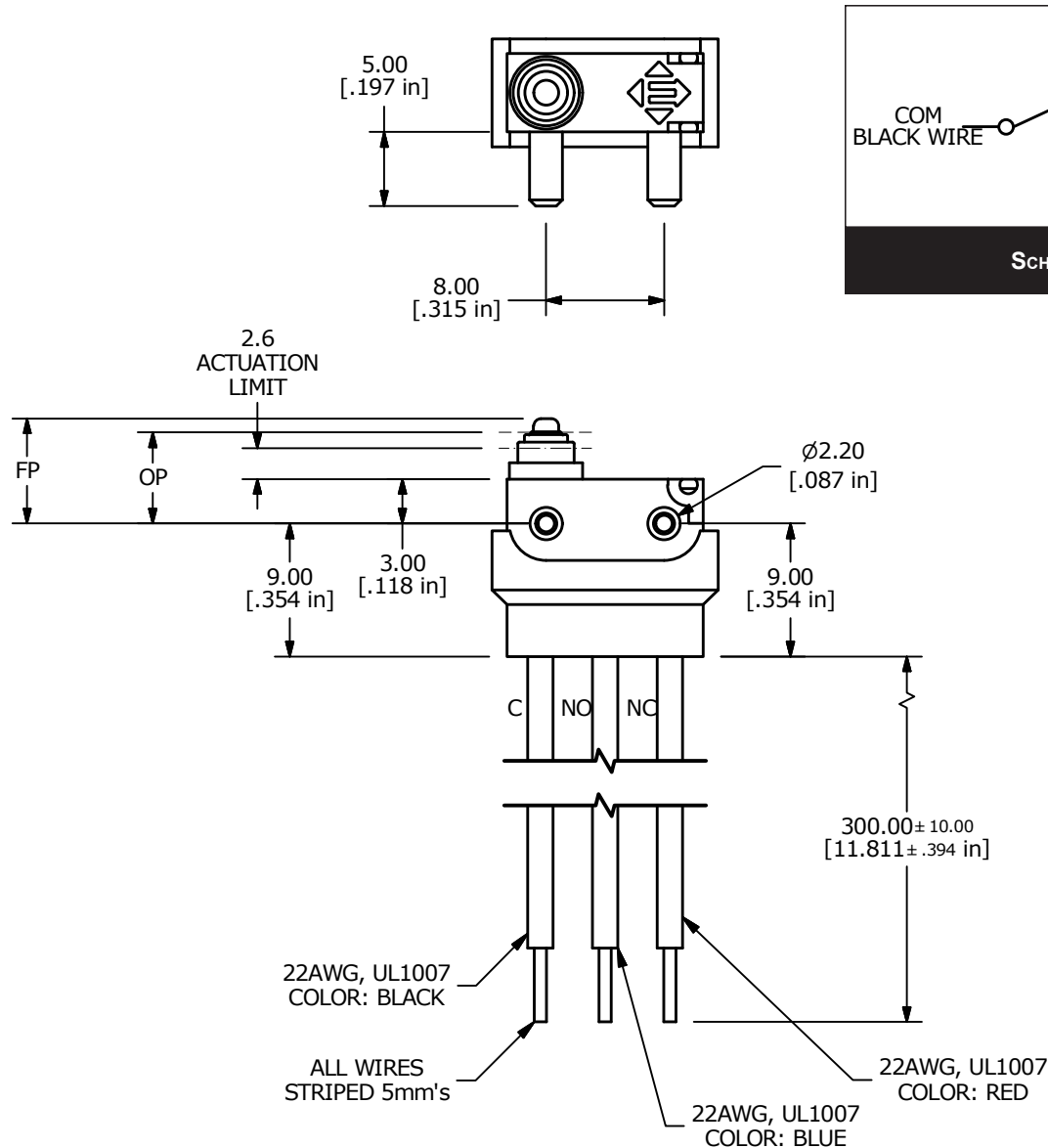
www.e-switch.com

800.867.2717

7

WS SERIES SNAP ACTION SWITCH

WIRE LEADS



NOTE: ACTUATION BELOW THE 2.6mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	6.5mm Max.	7.5±0.3mm
01	11.5mm Max.	9.3±0.8mm
02	12.0mm Max.	10.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S

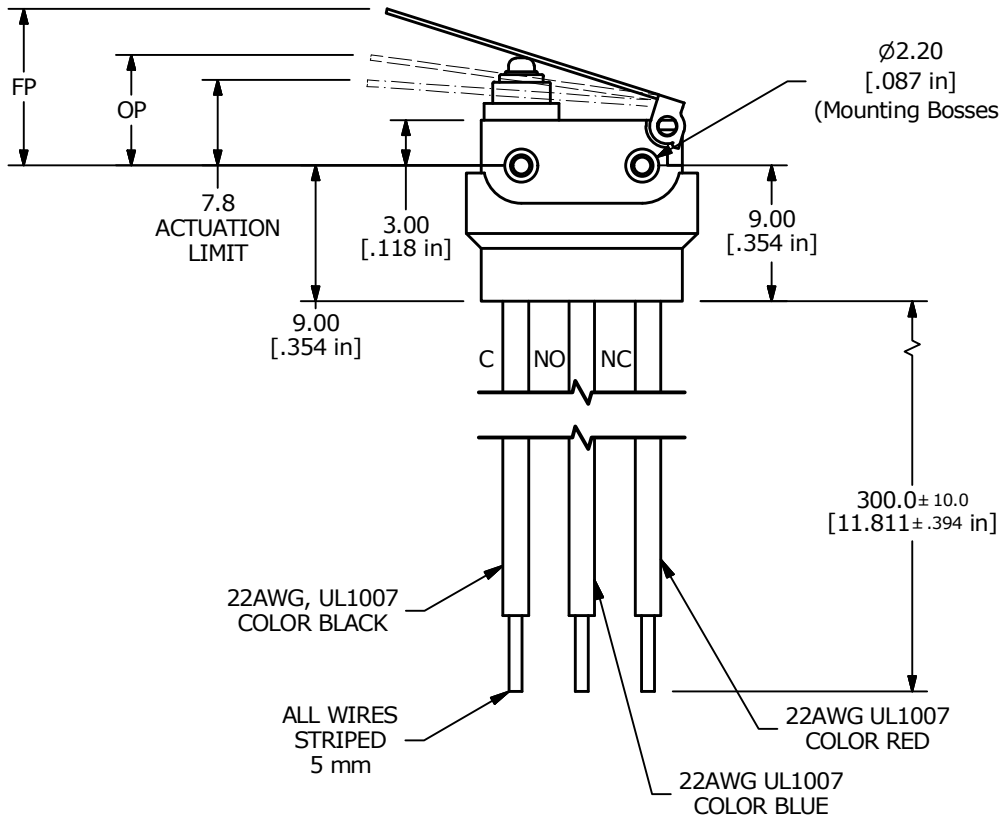
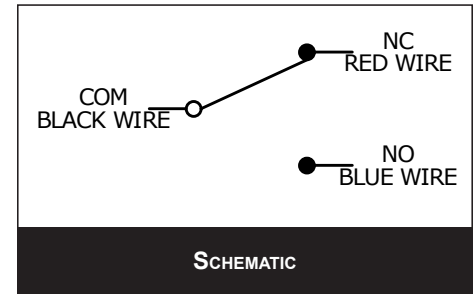
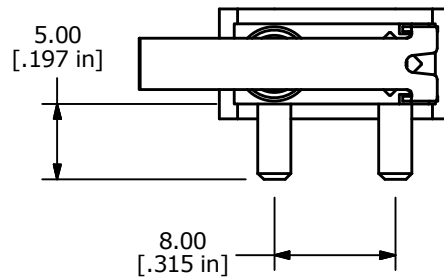
WIRE LEADS
WITH 00 PIN PLUNGER



- ANTI-VANDAL SWITCHES
- DETECTOR SWITCHES
- DIP SWITCHES
- KEYLOCK SWITCHES
- NAVIGATION SWITCHES
- PUSHBUTTON SWITCHES
- ROCKER SWITCHES
- ROTARY SWITCHES
- SLIDE SWITCHES
- SNAP ACTION SWITCHES
- TACTILE SWITCHES
- TOGGLE SWITCHES
- CAP OPTIONS

WS SERIES SNAP ACTION SWITCH

WIRE LEADS



NOTE: ACTUATION BELOW THE 7.8mm ACTUATION LIMIT MAY CAUSE DAMAGE TO THE INTERNAL CONTACTS.

OPERATING POINT CHART

ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	6.5mm Max.	7.5±0.3mm
01	11.5mm Max.	9.3±0.8mm
02	12.0mm Max.	10.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S

WIRE LEADS
WITH 01 LEVER



E-SWITCH®

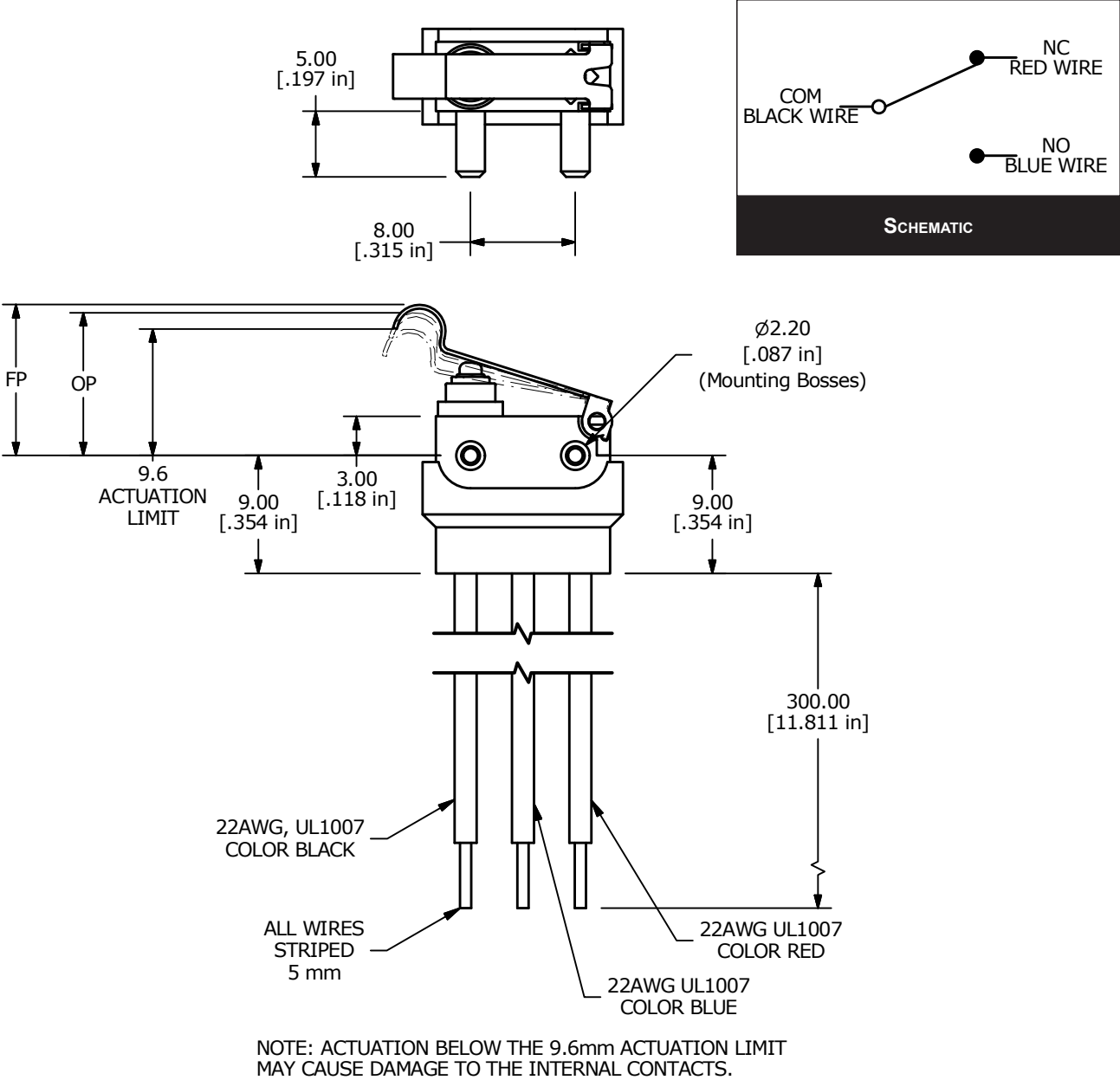
www.e-switch.com

800.867.2717

9

WS SERIES SNAP ACTION SWITCH

WIRE LEADS



OPERATING POINT CHART		
ACTUATOR STYLE	FREE POINT	OPERATING POINT
00	6.5mm Max.	7.5±0.3mm
01	11.5mm Max.	9.3±0.8mm
02	12.0mm Max.	10.8±0.8mm

NOTE: FOR WIRE LEAD TERMINATION MODELS, THE FREE POINT AND OPERATING POINT WOULD BE MEASURED FROM THE MOUNTING BOSSSES. THIS WILL REDUCE THE ABOVE LISTED VALUES BY 4MM'S

WIRE LEADS
WITH 02 SIMULATED LEVER



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

E-Switch:

[WS0850100F070SA](#) [WS0850101F050PA](#) [WS0850102F070PA](#) [WS0850102F070SA](#) [WS20850100F183C1A](#)
[WS20850100F183P1A](#) [WS20850100F183S1A](#) [WS10850100F130SA](#) [WS10850100F130WA](#) [WS1085300F130SA](#)
[WS1085300F130WA](#)