

# Trigger Switches



PART NUMBER	FEATURE	ACTUATION	TRIGGER COLOR	MAX RATING (Resistive @ 28VDC)	SEAL RATING	CIRCUITRY
U2-016	Military Qualified	Two-Step	Red	7A	Unsealed	DPDT
U2-025	Military Qualified	Two-Step	Red	7A	Unsealed	DPDT
U2-037	Commercial Grade	Two-Step	Gray	8A	Dusttight	4PDT
U2-054	Commercial Grade	One-Step	Gray	7A	Unsealed	DPDT
U2-081	Military Qualified	Two-Step	Red	7A	Unsealed	DPDT
U2-082	Military Qualified	Two-Step	Red	7A	Unsealed	DPDT
U2-083	Military Qualified	Two-Step	Red	7A	Unsealed	DPDT
U2-084	Military Qualified	Two-Step	Red	Low Level	Unsealed	DPDT
U2-093	Commercial Grade	One-Step	Gray	7A	Unsealed	DPDT
U2-169	Commercial Grade	Two-Step	Black	7A	Unsealed	DPDT
U2-273	Commercial Grade	Two-Step	Red	8A	Dusttight	4PDT
U2-605	Commercial Grade	Two-Step	Red Anodized	10A	IP68S	DPST
U2-618	Commercial Grade	Two-Step	Red	Logic Level	Unsealed	DPDT
U2-664	Commercial Grade	One-Step	Gray	7A	Unsealed	SPDT

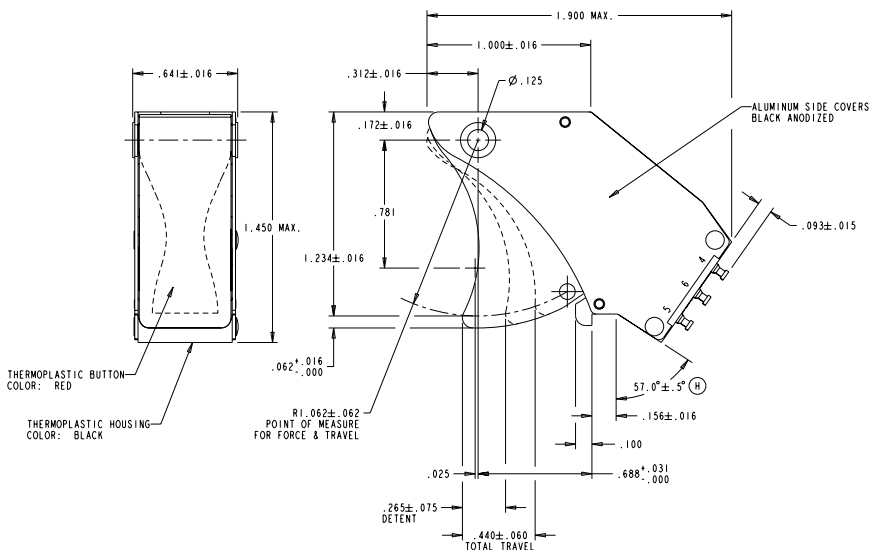


## U2-016

The U2-016 is a precision trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. to pass through the detent, and 6.0 lbs. to continue travel after the detent. It is designed to handle resistive electrical loads up to 7A at 28VDC. The U2-016 is military qualified to M8805/111-01.



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS (@28 VDC):		
Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	
MECHANICAL:		
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. ± .500 lbs. Pass through Detent: 6.500 lbs. ± .750 lbs. Pole Two: 6, +0/-3 .lbs.	
MATERIALS:		
Button:	Red thermoplastic	
Housing:	Black thermoplastic	
Side Covers:	Black anodized aluminum	
ENVIRONMENTAL:		
Temperature Range:	-55°C to +85°C	
Seal:	Unsealed per MIL-PRF-8805, Design 1	

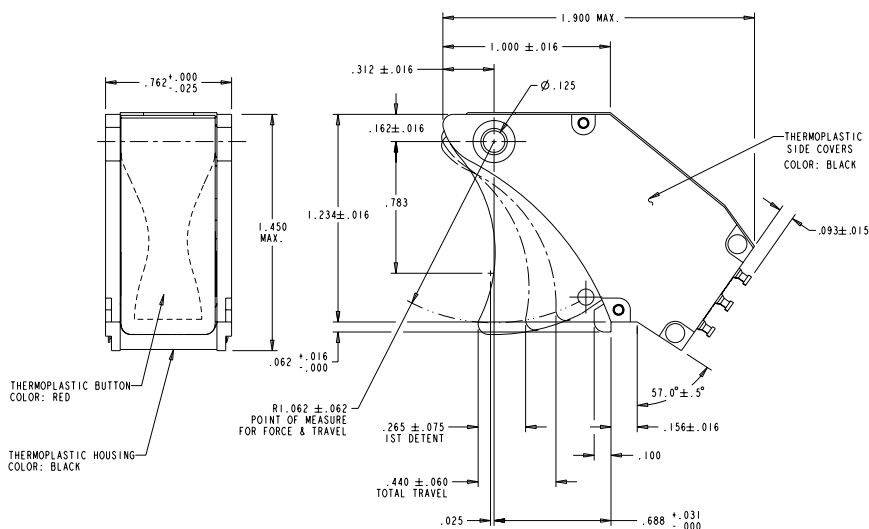


## U2-025

The U2-025 is a precision two-step trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. passing through a detent to actuate the second pole. It is designed to handle resistive electrical loads up to 7A at 28VDC. The U2-025 is military qualified to M8805/111-04.



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS (@28 VDC):		
Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	
MECHANICAL:		
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. ± .500 lbs. Pass through Detent: 6.500 lbs. ± .750 lbs. Pole Two: 6, +0/-3 .lbs.	
MATERIALS:		
Button:	Red thermoplastic	
Housing:	Black thermoplastic	
Side Covers:	Black thermoplastic	
ENVIRONMENTAL:		
Temperature Range:	-55°C to +85°C	
Seal:	Unsealed per MIL-PRF-8805, Design 1	





# MILITARY QUALIFIED TRIGGER SWITCHES

**U2**  
TRIGGER  
SWITCHES

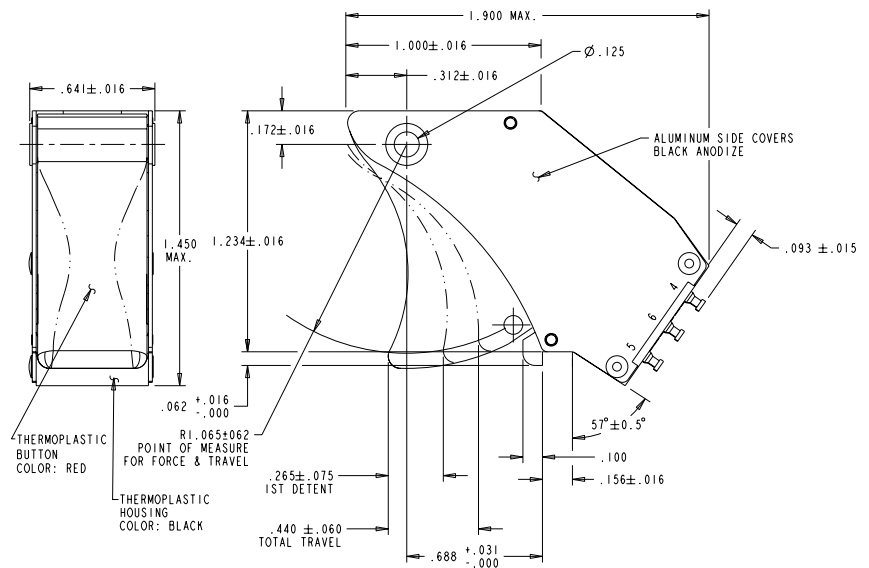
ONE-STEP AND TWO-STEP, PRECISE, MILITARY QUALIFIED

## U2-081

The U2-081 is a precision two-step trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. to pass through the detent, and 6.0 lbs. to continue travel after the detent. It is designed to handle resistive electrical loads up to 7A at 28VDC. The U2-081 is military qualified to M8805/111-02.



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS (@28 VDC):		
Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	
MECHANICAL:		
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. ± .500 lbs. Pass through Detent: 6.500 lbs. ± .750 lbs. Pole Two: 6, +0/-3 .lbs.	
MATERIALS:		
Button:	Red thermoplastic	
Housing:	Black thermoplastic	
Side Covers:	Black anodized aluminum	
ENVIRONMENTAL:		
Temperature Range:	-55° C to +85° C	
Seal:	Unsealed per MIL-PRF-8805, Design 1	

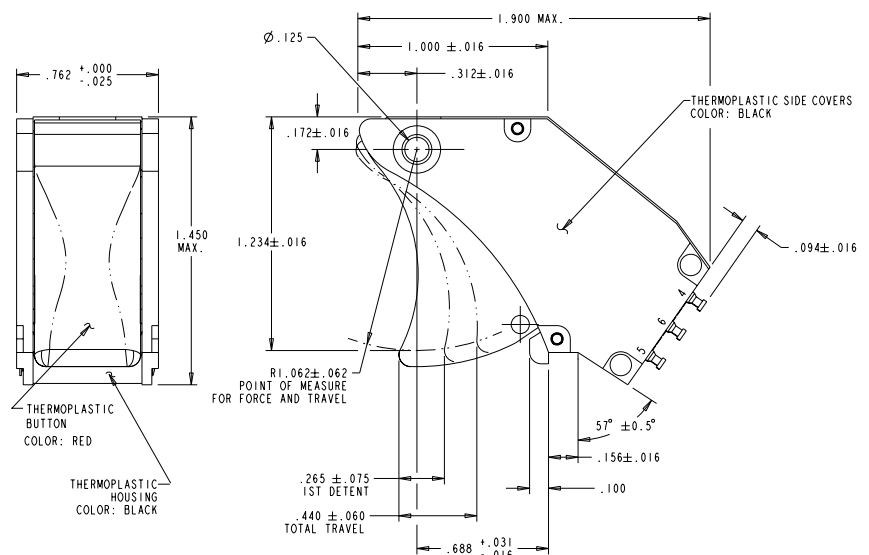


## U2-082

The U2-082 is a precision two-step trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. passing through a detent to actuate the second pole. It is designed to handle resistive electrical loads up to 7A at 28VDC. The U2-082 is military qualified to M8805/111-03.



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS (@28 VDC):		
Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	
MECHANICAL:		
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. ± .500 lbs. Pass through Detent: 6.500 lbs. ± .750 lbs. Pole Two: 6, +0/-3 .lbs.	
MATERIALS:		
Button:	Red thermoplastic	
Housing:	Black thermoplastic	
Side Covers:	Black anodized aluminum	
ENVIRONMENTAL:		
Temperature Range:	-55°C to +85°C	
Seal:	Unsealed per MIL-PRF-8805, Design 1	





## U2-083

The U2-083 is a precision two-step trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. to pass through the detent, and 6.0 lbs. to continue travel after the detent. It is designed to handle resistive electrical loads up to 7A at 28VDC. The U2-083 is military qualified to M8805/111-05.



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS (@28 VDC):

Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	

#### MECHANICAL:

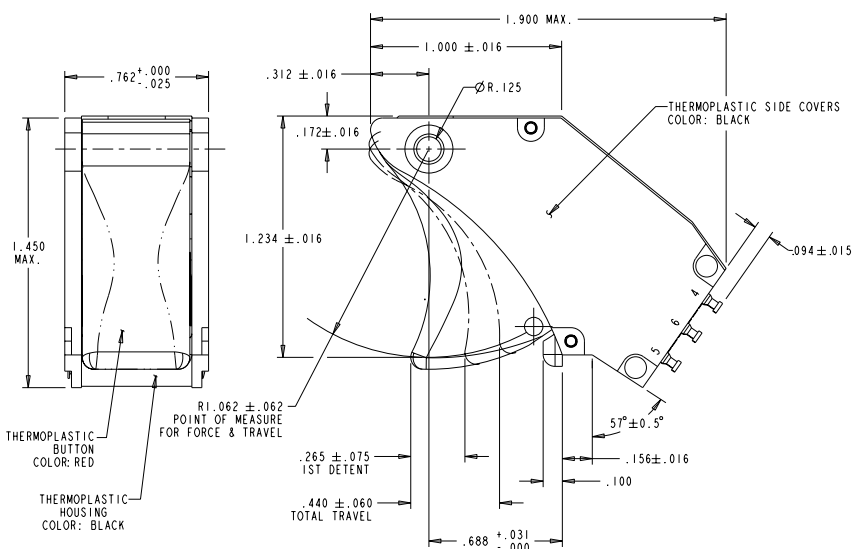
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. $\pm$ .500 lbs. Pass through Detent: 6.500 lbs. $\pm$ .750 lbs. Pole Two: 6, +0/-3 .lbs.	

#### MATERIALS:

Button:	Red thermoplastic
Housing:	Black thermoplastic
Side Covers:	Black thermoplastic

#### ENVIRONMENTAL:

Temperature Range:	-55°C to +85°C
Seal:	Unsealed per MIL-PRF-8805, Design 1



## U2-084

The U2-084 is a precision two-step, low level trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. passing through a detent to actuate the second pole. The U2-084 is military qualified to M8805/111-06.



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS (@28 VDC):

Load	Sea Level	50,000 ft.
Resistive:	1A	1A
Inductive:	.5A	.5A
Low Level:	10mA @ 30mV	
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	

#### MECHANICAL:

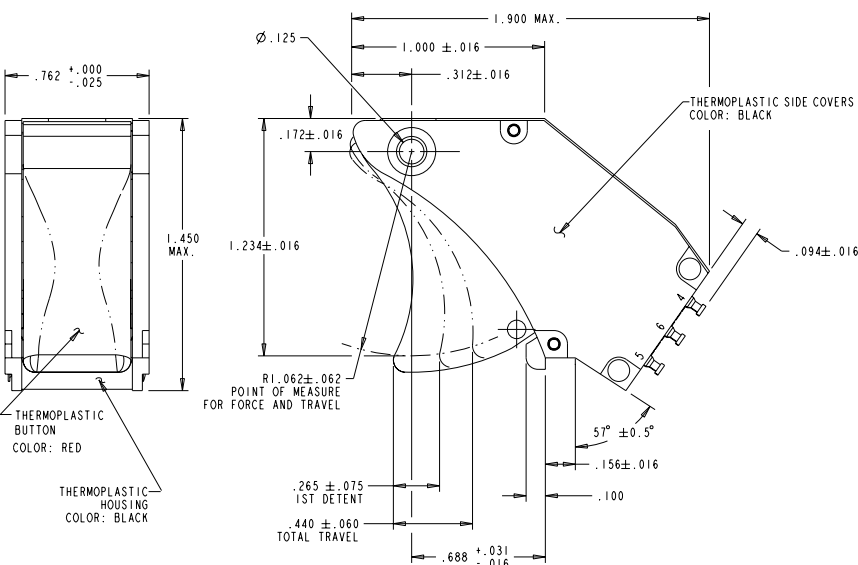
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. $\pm$ .500 lbs. Pass through Detent: 6.500 lbs. $\pm$ .750 lbs. Pole Two: 6, +0/-3 .lbs.	

#### MATERIALS:

Button:	Red thermoplastic
Housing:	Black thermoplastic
Side Covers:	Black anodized aluminum

#### ENVIRONMENTAL:

Temperature Range:	-55°C to +85°C
Seal:	Unsealed per MIL-PRF-8805, Design 1





# COMMERCIAL GRADE TRIGGER SWITCHES

**U2**  
TRIGGER  
SWITCHES

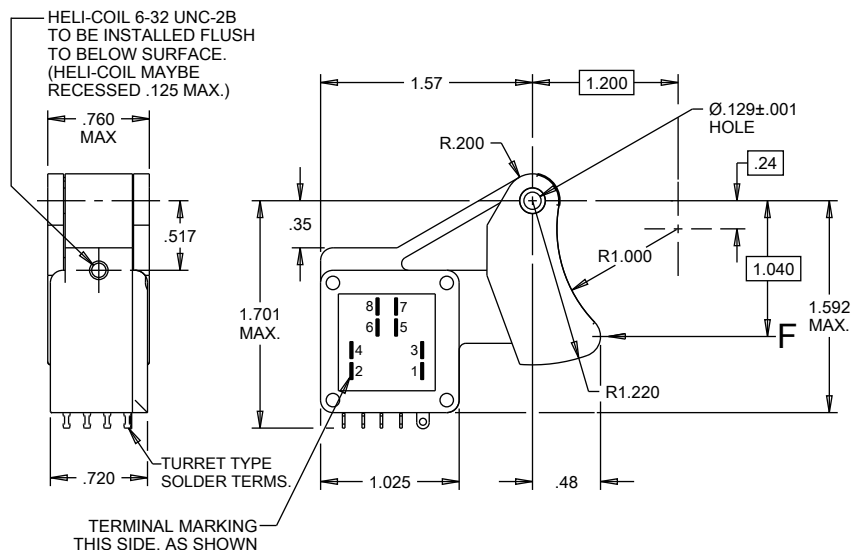
ONE-STEP AND TWO-STEP, PRECISE, COMMERCIAL GRADE

## U2-037

The U2-037 is a precision trigger switch that offers two levels of operation with positive detent between levels. The switch has an actuating force of 3.0 lbs. to make the first pole, and an additional 5.0 lbs. to actuate the second pole. It is designed to handle resistive electrical loads up to 8A at 28VDC. The U2-037 is dusttight per MIL-PRF-8805 Design 2 and also provides magnetic shielding. The switch features OTTO B3 basic switches per MIL-PRF-8805.



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS (@28 VDC):		
Load	Sea Level	70,000 ft.
Resistive:	8A	8A
Inductive:	5A	5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	
MECHANICAL:		
Mechanical Life:	50,000 cycles	
Operating Force:	Pole One: 3.0 lbs. ± 1.7 lbs. Pass through Detent: .187 lbs. ± 0.20 lbs. Pole Two: 8.0 lbs. ± 3.0 lbs.	
MATERIALS:		
Button:	Gray thermoplastic	
ENVIRONMENTAL:		
Temperature Range:	-40°C to +85°C	
Seal:	Dusttight per MIL-PRF-8805, Design 2	

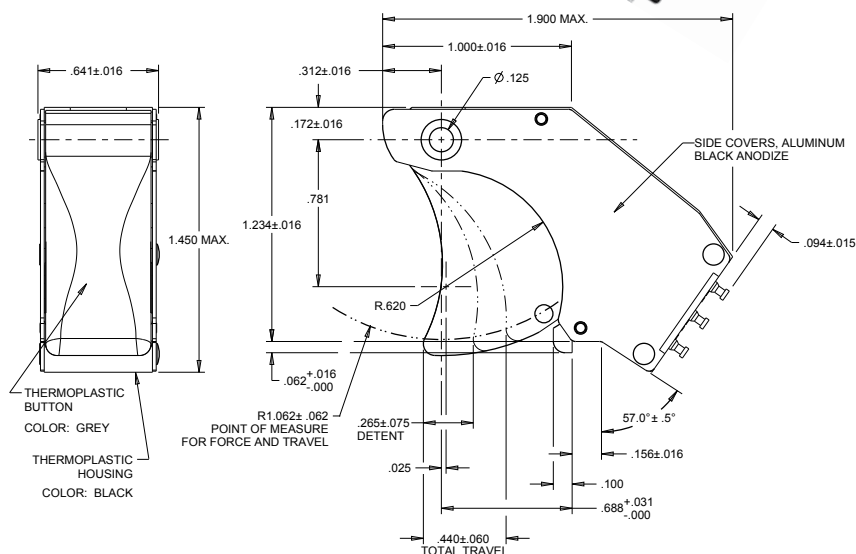


## U2-054

The U2-054 is a single-step trigger switch and an excellent choice when a two-step trigger is not required. Actuating force is 3 lbs. to pass through the detent and will continue travel after the detent. It is designed to handle resistive electrical loads up to 7A at 28VDC. The U2-054 is 7 amps resistive @ 28VDC.



Standard Characteristics/Ratings:		
ELECTRICAL RATINGS (@28 VDC):		
Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	
MECHANICAL:		
Mechanical Life:	100,000 cycles	
Operating Force:	3.0 lbs. ± .5 lbs.	
MATERIALS:		
Button:	Gray thermoplastic	
Housing:	Black thermoplastic	
Side Covers:	Black anodized aluminum	
ENVIRONMENTAL:		
Temperature Range:	-55°C to +85°C	
Seal:	Unsealed per MIL-PRF-8805, Design 1	





## ONE-STEP AND TWO-STEP, PRECISE, COMMERCIAL GRADE

### U2-093

The U2-093 is a precision trigger switch with an actuating force of 6.5 lbs. and is designed to handle resistive electrical loads up to 7A at 28VDC.



#### Standard Characteristics/Ratings:

##### ELECTRICAL RATINGS (@28 VDC):

Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	4A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	25,000 cycle	

##### MECHANICAL:

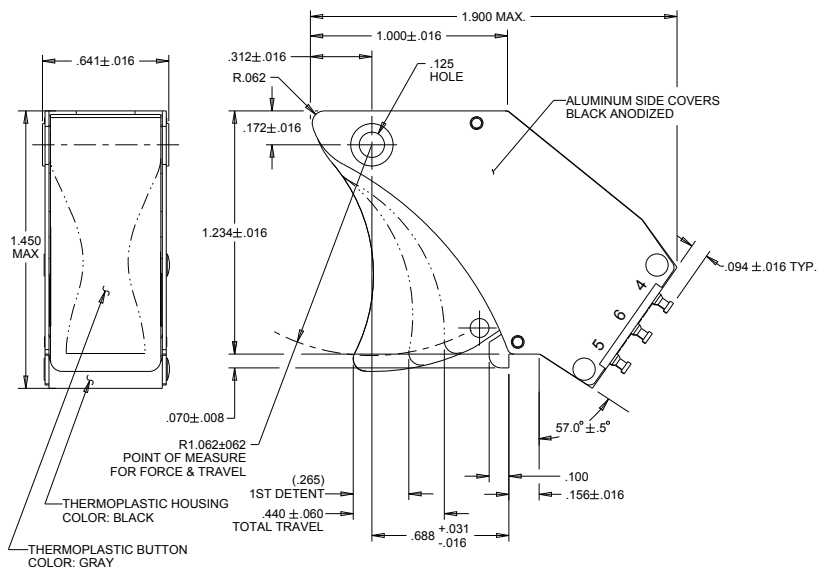
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: Pretravel: .130 min from Full Out Overtravel: .015 min. before First Detent Detent: 6.50 lbs. $\pm$ .75 lbs. Pole Two: Pretravel: .020 min beyond First Detent Overtravel: .030 min. before Total Travel	

##### MATERIALS:

Button:	Gray thermoplastic
Housing:	Black thermoplastic
Side Covers:	Black anodized aluminum

##### ENVIRONMENTAL:

Temperature Range:	-55°C to +85°C
Seal:	Unsealed per MIL-PRF-8805, Design 1



### U2-169

The U2-169 is a precision two-step trigger switch with an actuating force of 2.25 lbs. to make the first pole; 6.5 lbs. is required to pass through the detent, and 6.0 lbs. to continue travel after the detent. It is designed to handle resistive electrical loads up to 7A at 28VDC.



#### Standard Characteristics/Ratings:

##### ELECTRICAL RATINGS (@28 VDC):

Load	Sea Level	50,000 ft.
Resistive:	7A	4A
Inductive:	5A	2.5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	

##### MECHANICAL:

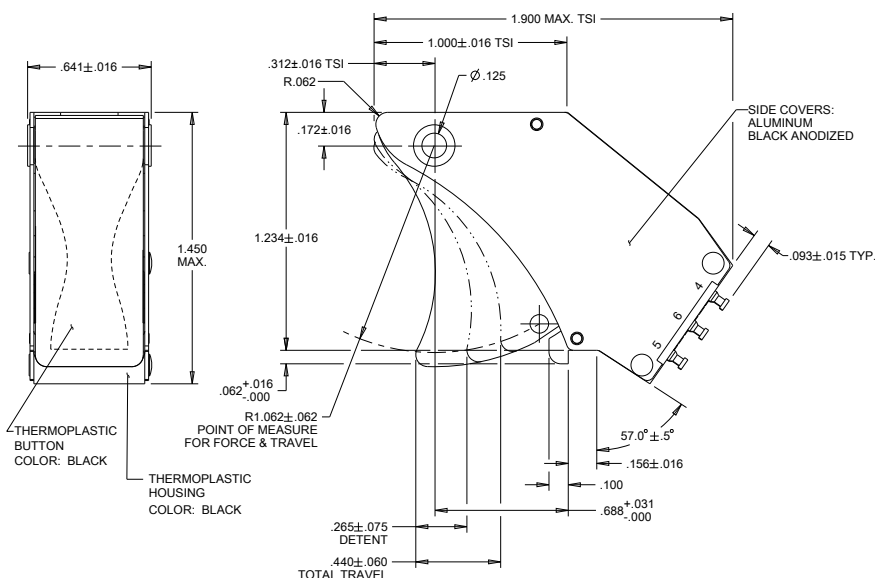
Mechanical Life:	100,000 cycles	
Operating Force:	Pole One: 2.250 lbs. $\pm$ .500 lbs. Pass through Detent: 6.500 lbs. $\pm$ .750 lbs. Pole Two: 6.0, +0, -3 lbs.	

##### MATERIALS:

Button:	Black thermoplastic
Housing:	Black thermoplastic
Side Covers:	Black anodized aluminum

##### ENVIRONMENTAL:

Temperature Range:	-55°C to +85°C
Seal:	Unsealed per MIL-PRF-8805, Design 1





# COMMERCIAL GRADE TRIGGER SWITCHES

**U2**  
TRIGGER  
SWITCHES

ONE-STEP AND TWO-STEP, PRECISE, COMMERCIAL GRADE

## U2-273

The U2-273 is a precision two-step trigger switch with an actuating force of 3.1 lbs. to make the first pole and 7.5 lbs. passing through a detent to actuate the second pole. It is designed to handle resistive electrical loads up to 8A at 28VDC. The U2-037 is dusttight per MIL-PRF-8805 Design 2 and also provides magnetic shielding.



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS (@28 VDC):

Load	Sea Level	70,000 ft.
Resistive:	8A	8A
Inductive:	5A	5A
DWV:	1050 VRMS	400 VRMS
Electrical Life:	50,000 cycle	

#### MECHANICAL:

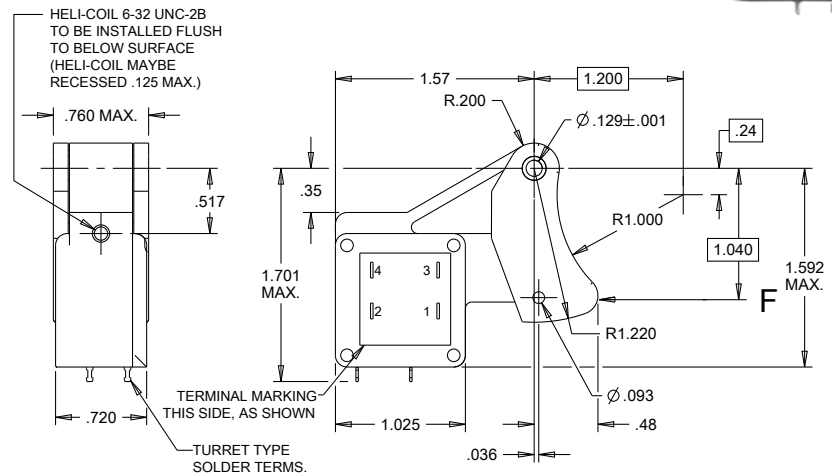
Mechanical Life:	50,000 cycles
Operating Force:	Pole One: 3.1 lbs. $\pm$ 1.7 lbs. Pass through Detent: .187 lbs. $\pm$ .020 lbs. Pole Two: 7.5 lbs. $\pm$ 2.0 lbs.

#### MATERIALS:

Button:	Red thermoplastic
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#### ENVIRONMENTAL:

Temperature Range:	-40°C to +85°C
Seal:	Dusttight per MIL-PRF-8805, Design 2



## U2-605

Sealed to IP68S, the U2-605 is a two-step trigger switch designed for use in a grip - specifically for sealed grip applications. This switch has an actuating force of 3.0 lbs. to make the first pole, 6.5 lbs. passing through a detent to actuate the second pole, and 6.0 lbs. to continue travel after the detent. It is designed to handle resistive electrical loads up to 10A at 28VDC.



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS (@28 VDC):

Load	Sea Level
Resistive:	10A
Inductive:	5A
Lamp:	3A
DWV:	1050 VRMS
Electrical Life:	25,000 cycle

#### MECHANICAL:

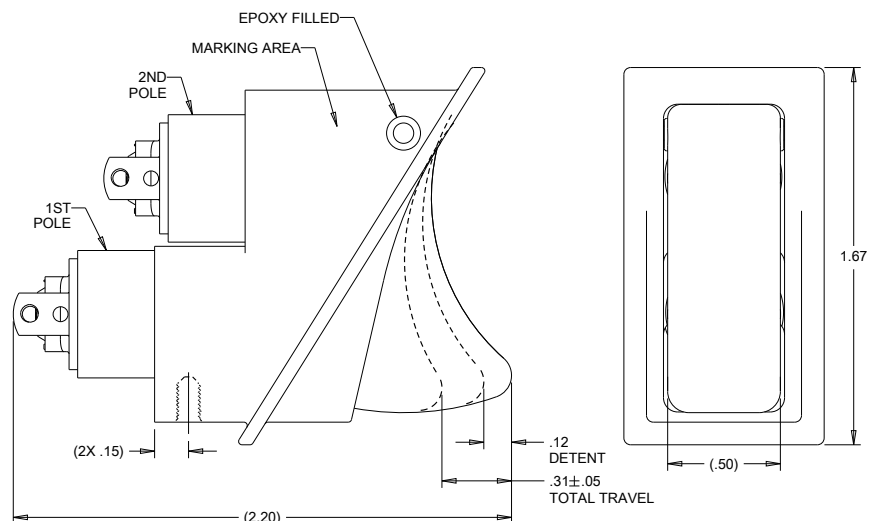
Mechanical Life:	100,000 cycles
Operating Force:	Pole One: 3.00 lbs. $\pm$ .75 lbs. Pass through Detent: 6.50 lbs. $\pm$ .75 lbs. Pole Two: 6.0, +0, -3 lbs.

#### MATERIALS:

Button:	Red anodized aluminum
Housing:	Black anodized aluminum

#### ENVIRONMENTAL:

Temperature Range:	-40°C to +85°C
Seal:	Sealed to IP68S





ONE-STEP AND TWO-STEP, PRECISE, COMMERCIAL GRADE

# U2-618

The U2-618 is a precision two-step, logic level trigger switch offering two levels of operation with positive detent between levels. The switch has an actuating force of 2.50 lbs. to make the first pole, and an additional 4.5 lbs. to actuate the second pole.

**Standard Characteristics/Ratings:****ELECTRICAL RATINGS (@28 VDC):**

<b>Load</b>	Sea Level	50,000 ft.
<b>Resistive:</b>	1A	1A
<b>Inductive:</b>	.5A	.5A
<b>Logic Level:</b>	10mA @ 5V	
<b>DWV:</b>	1050 VRMS	400 VRMS
<b>Electrical Life:</b>	25,000 cycle	

**MECHANICAL:**

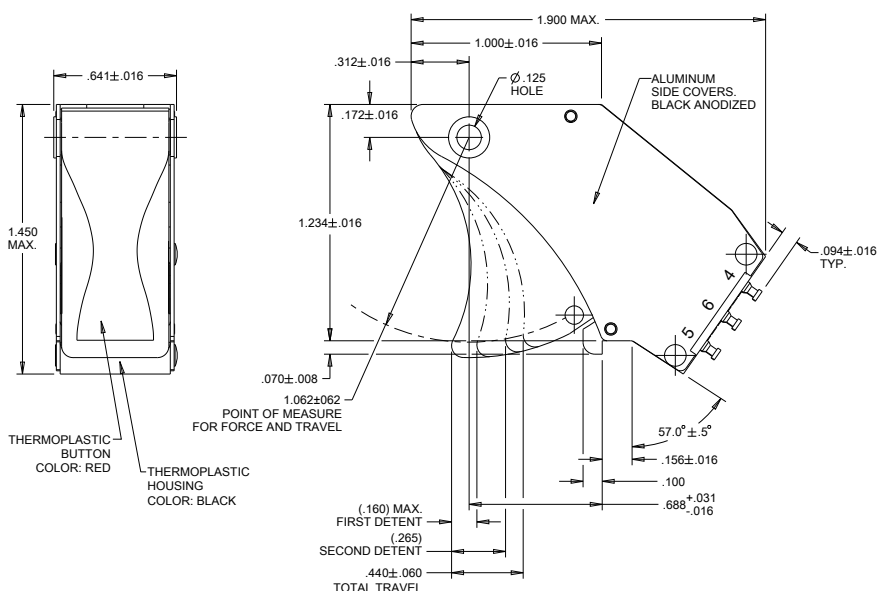
<b>Mechanical Life:</b>	100,000 cycles
<b>Operating Force:</b>	Pre-Travel Detent One: 2.50 lbs. $\pm$ 0.75 lbs. Pole One: 2.50 lbs. $\pm$ 0.75 lbs. Pass through Detent Two: .265 lbs. $\pm$ .075 lbs. Pole Two: 4.50 lbs. $\pm$ 1.00 lbs.

**MATERIALS:**

<b>Button:</b>	Red thermoplastic
<b>Housing:</b>	Black thermoplastic
<b>Side Covers:</b>	Black anodized aluminum

**ENVIRONMENTAL:**

<b>Temperature Range:</b> -55°C to +85°C	
<b>Seal:</b>	Unsealed per MIL-PRF-8805, Design 1



**U2-664**

The U2-664 is a precision, single pole trigger switch with an actuating force of 2.25 lbs. and no detent. It is designed to handle resistive electrical loads up to 7A at 28VDC.

**Standard Characteristics/Ratings:****ELECTRICAL RATINGS (@28 VDC):**

<b>Load</b>	Sea Level	50,000 ft.
<b>Resistive:</b>	7A	4A
<b>Inductive:</b>	4A	2.5A
<b>DWV:</b>	1050 VRMS	400 VRMS
<b>Electrical Life:</b>	50,000 cycle	

**MECHANICAL:**

<b>Mechanical Life:</b>	100,000 cycles
<b>Pretravel:</b>	.130 min. from Full Out
<b>Overtavel:</b>	.015 min. before Detent
<b>Actuation Force:</b>	2.250 lbs. $\pm$ 0.500 lbs.

**MATERIALS:**

<b>Button:</b>	Gray Thermoplastic
<b>Housing:</b>	Black Thermoplastic
<b>Side Covers:</b>	Black Anodized Aluminum

**ENVIRONMENTAL:**

<b>Temperature Range:</b>	-40°C to +85°C
<b>Seal:</b>	Unsealed per MIL-PRF-8805, Design 1

