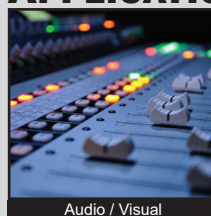


ULV4 SERIES ANTI-VANDAL SWITCH



APPLICATIONS / MARKETS



Audio / Visual



Security Devices



Industrial Controls



Kiosks



Electrical Housewares



Medical Equipment



RoHS

SPECIFICATIONS

Electrical Rating: 3A, 125/250VAC
Mechanical Life: 1,000,000 cycles (momentary); 500,000 cycles (latching)
Electrical Life: 50,000 Cycles
Contact Resistance: 50mΩ
Insulation Resistance: 1000 MΩ @ 500VDC
Dielectric Strength: 2,000VAC
Operating/Storage Temperature: -20°C to 55°C
Travel: 3.2mm
Moisture Protection: IP67
Contact Arrangement: SPDT or DPDT
Actuation Force: Single Pole: 2.5N; Double Pole: 3.5N
Panel Thickness: 1-10mm
Hex Nut Torque: 5-14Nm
Mechanical Impact Protection: IK08
Agency Approvals: cURus

FEATURES & BENEFITS

- 19mm diameter panel cutout
- Dot or ring or power illumination options available
- Multiple switch functions available
- Multiple illumination voltage options
- IP67 rated
- SPDT or DPDT
- UL Certified
- Custom graphics available
- Soldered wire leads (300mm long) optional

PART NUMBER CONFIGURATOR

Series	Actuator	Terminal	Function	Body Finish	Actuator Finish	Contact Material	Lens Style	LED Color	Illumination Voltage
ULV4	F - Flat	2 - Solder Wire Leads 300mm long	3 - 1P ON-ON B - 1P ON-(ON)* G - 2P ON-ON H - 2P ON-(ON)*	N - Nickel Plated S - Stainless Steel 1 - Black Anodized	N - Nickel Plated S - Stainless Steel 1 - Black Anodized	None - Silver G - Gold	None - Non-Illuminated 2 - Dot Illumination 3 - Ring, moveable with actuator 5 - Power symbol	None - Non-Illuminated 0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow G - Red / Green P - Green / Yellow	None - Non-Illuminated 1 - 3V 3 - 6V 4 - 12V 5 - 24V 6 - 110V 7 - 220V

NOTES:

*() denotes function is momentary
 Call us for custom graphic options 800-867-2717

Specifications subject to change without notice 5.2.2019



E-SWITCH®

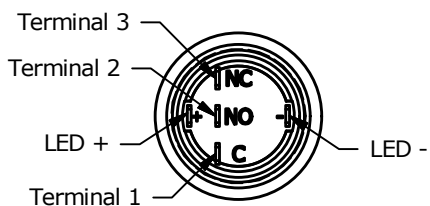
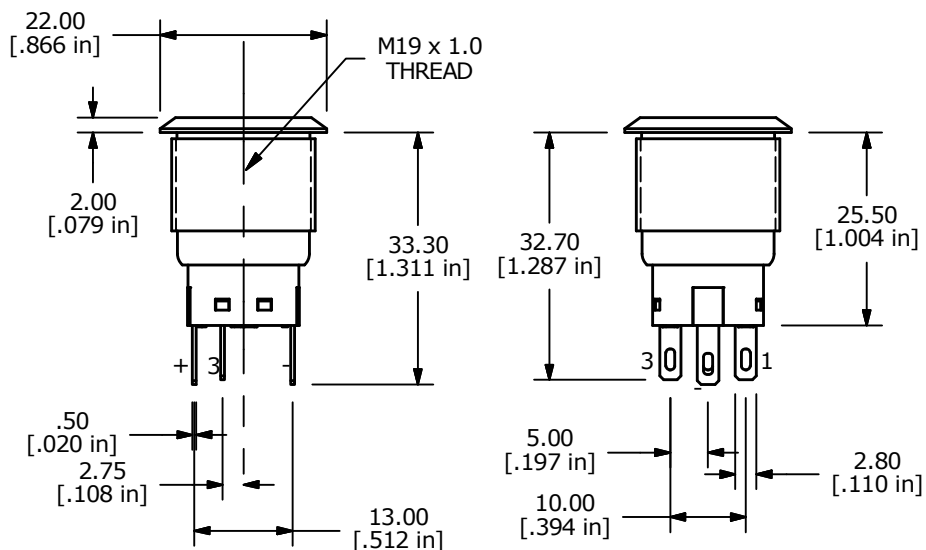
www.e-switch.com

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1

ULV4 SERIES ANTI-VANDAL SWITCH

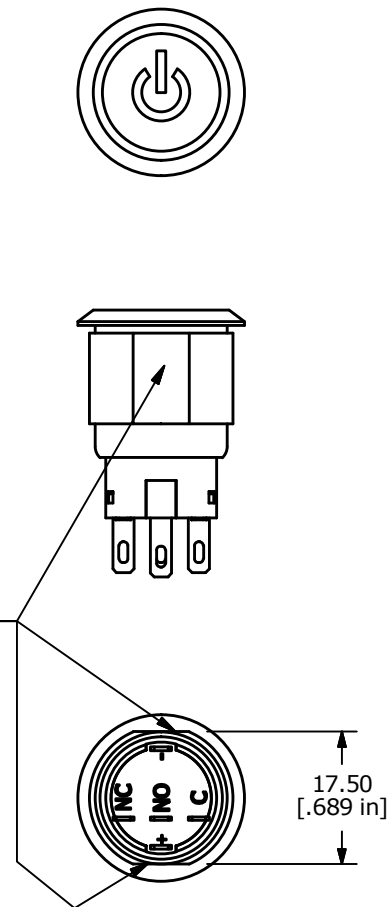
BODY DIMENSIONS - SPDT



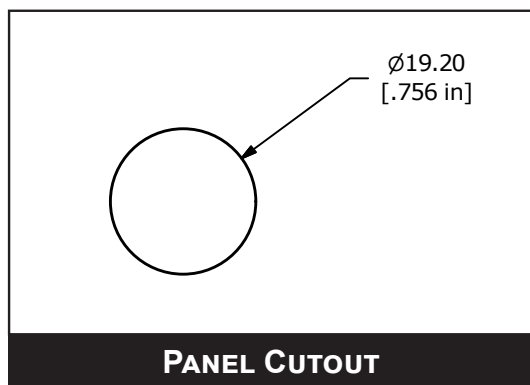
SPDT Illuminated Option Shown.
The LED + and - terminals are not included on the non-illuminated options

SPDT SWITCH DIMENSIONS

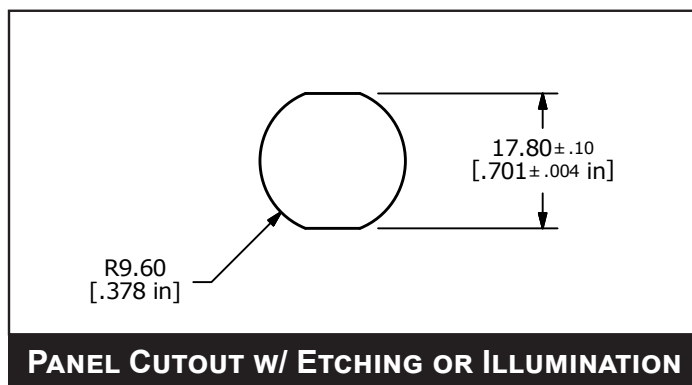
ORIENTATION FEATURE ON SWITCHES WITH GRAPHICS OR ILLUMINATED POWER SYMBOL



GRAPHIC OPTIONS



PANEL CUTOUT



PANEL CUTOUT W/ ETCHING OR ILLUMINATION



E-SWITCH®

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2

ANTI-VANDAL SWITCHES

DETECTOR SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

ROCKER SWITCHES

ROTARY SWITCHES

SLIDE SWITCHES

SNAP ACTION SWITCHES

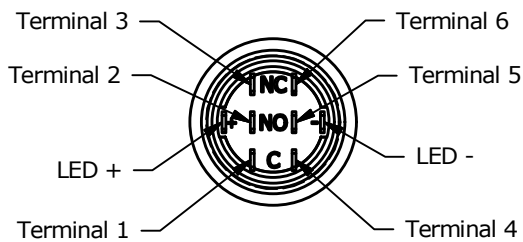
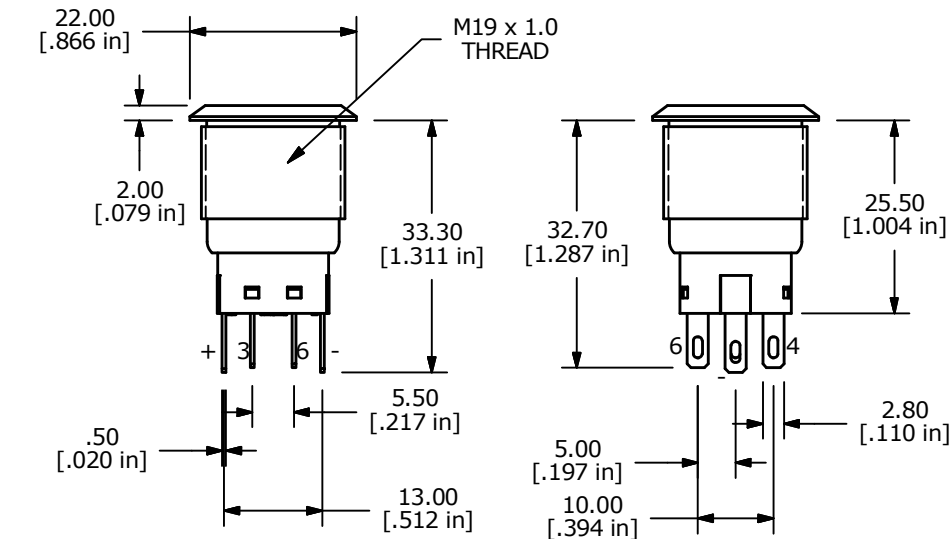
TACTILE SWITCHES

TOGGLE SWITCHES

CAP OPTIONS

ULV4 SERIES ANTI-VANDAL SWITCH

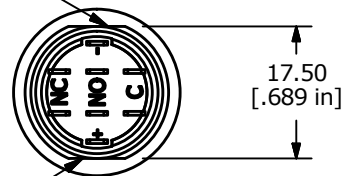
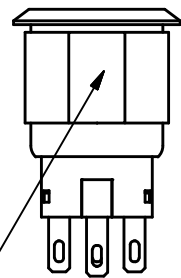
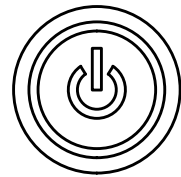
BODY DIMENSIONS - DPDT



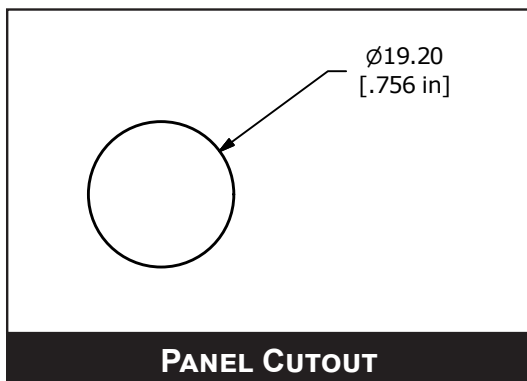
DPDT Illuminated Option Shown.
The LED + and - terminals are not included on the non-illuminated options

DPDT SWITCH DIMENSIONS

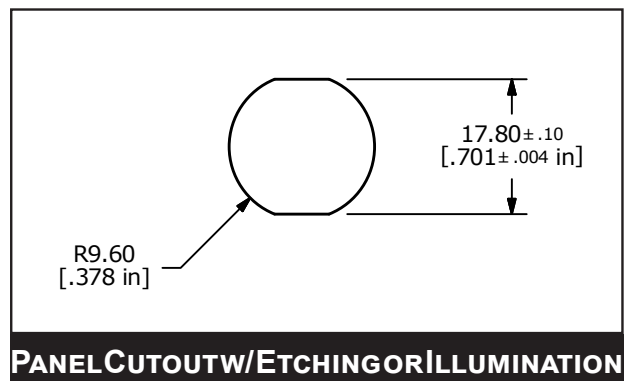
ORIENTATION FEATURE ON SWITCHES WITH GRAPHICS OR ILLUMINATED POWER SYMBOL



GRAPHIC OPTIONS



PANEL CUTOUT



PANEL CUTOUT W/ETCHING OR ILLUMINATION



E-SWITCH®

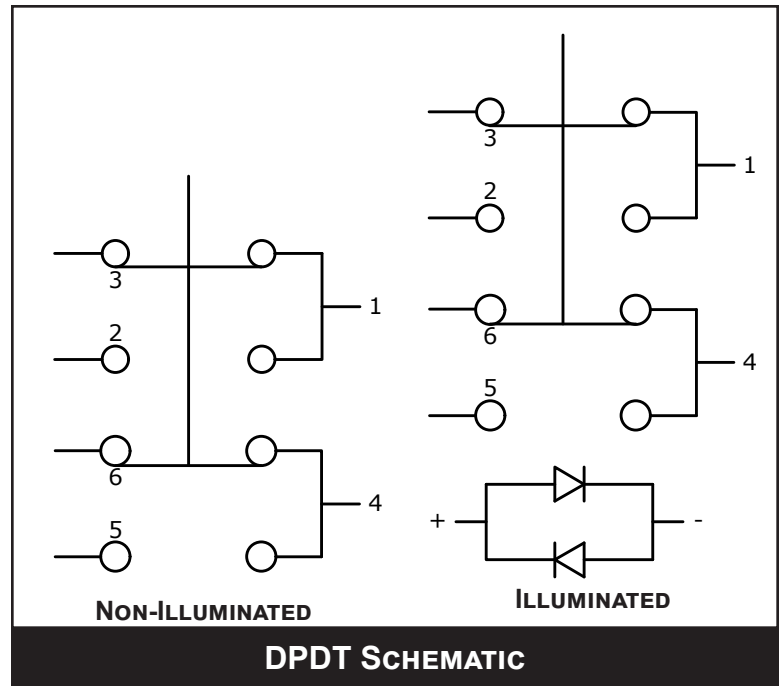
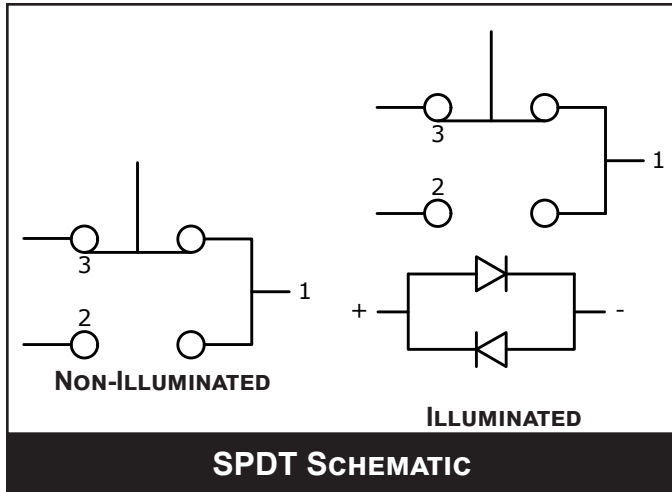
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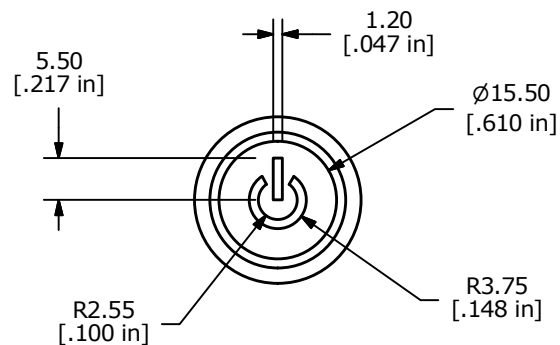
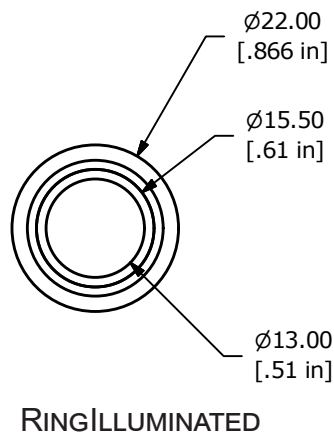
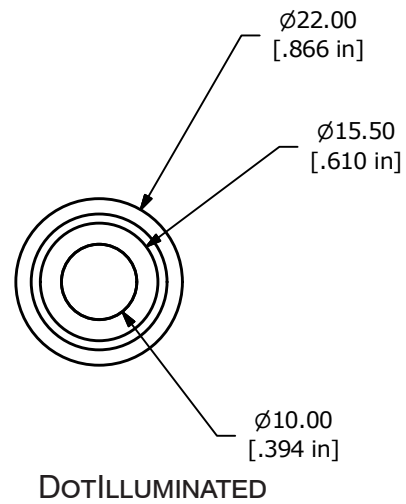
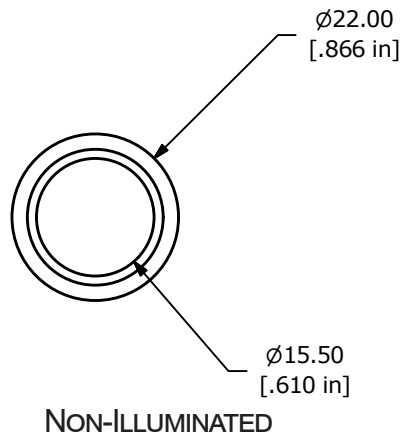
3

ULV4 SERIES ANTI-VANDAL SWITCH

SCHEMATICS



ACTUATOR OPTIONS



E-SWITCH®

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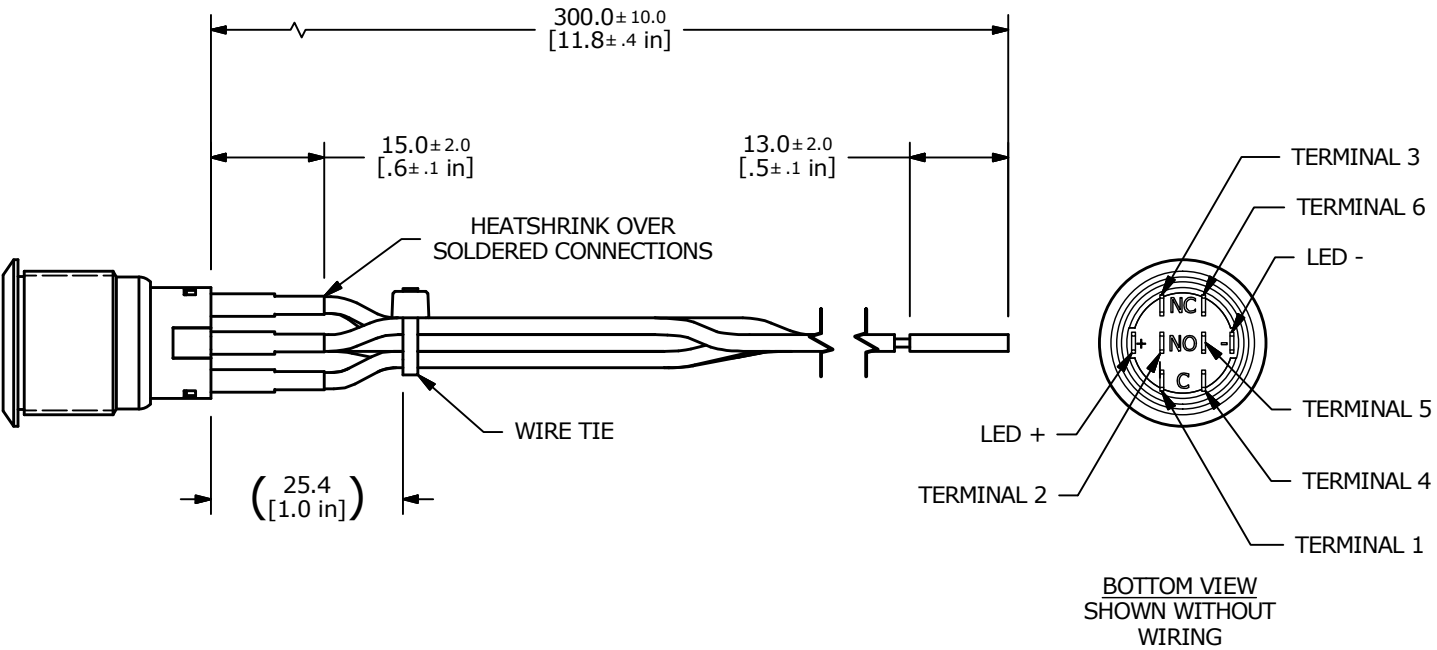
4

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

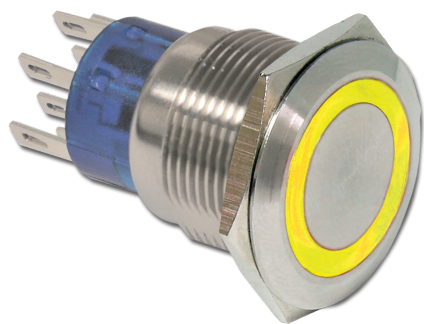
WIRE LEADS

SWITCH	WIRE	LENGTH
SW1-1	WIRE, 24AWG AWM UL1015, BLUE	300.0 [11.8 in]
SW1-2	WIRE, 24AWG AWM UL1015, PURPLE	300.0 [11.8 in]
SW1-3	WIRE, 24AWG AWM UL1015, GREEN	300.0 [11.8 in]
SW1-4	WIRE, 24AWG AWM UL1015, WHITE	300.0 [11.8 in]
SW1-5	WIRE, 24AWG AWM UL1015, ORANGE	300.0 [11.8 in]
SW1-6	WIRE, 24AWG AWM UL1015, YELLOW	300.0 [11.8 in]
SW1- (-)	WIRE, 24AWG AWM UL1015, BLACK	300.0 [11.8 in]
SW1- (+)	WIRE, 24AWG AWM UL1015, RED	300.0 [11.8 in]

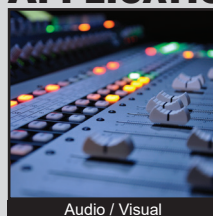
** WIRE LEADS PROVIDED ARE DEPENDANT ON THE FUNCTION SELECTED **



ULV7 SERIES ANTI-VANDAL SWITCH



APPLICATIONS / MARKETS



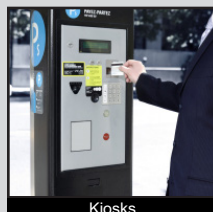
Audio / Visual



Security Devices



Industrial Controls



Kiosks



Electrical Housewares



Medical Equipment



RoHS

SPECIFICATIONS

Electrical Rating: 3A, 125/250VAC
Mechanical Life: 1,000,000 cycles (momentary); 500,000 cycles (latching)
Electrical Life: 50,000 Cycles
Contact Resistance: 50mΩ
Insulation Resistance: 1000 MΩ @ 500VDC
Dielectric Strength: 2,000VAC
Operating/Storage Temperature: -20°C to 55°C
Travel: 3.2mm
Moisture Protection: IP67
Contact Arrangement: SPDT or DPDT
Actuation Force: Single Pole: 2.5N; Double Pole: 3.5N
Panel Thickness: 1-10mm
Hex Nut Torque: 5-14Nm
Mechanical Impact Protection: IK08
Agency Approvals: cURus

FEATURES & BENEFITS

- 22mm diameter panel cutout
- Ring illumination
- Multiple switch functions available
- Multiple illumination voltage options
- IP67 rated
- SPDT or DPDT
- UL Certified
- Custom graphics available
- Soldered wire leads (300mm long) optional

PART NUMBER CONFIGURATOR

Series	Actuator	Terminal	Function	Body Finish	Actuator Finish	Contact Material	Lens Style	LED Color	Illumination Voltage
ULV7	F - Flat	2 - Solder W - Wire Leads 300mm long	3 - 1P ON-ON B - 1P ON-(ON)* G - 2P ON-ON H - 2P ON-(ON)*	S - Stainless Steel 1 - Black Anodized	S - Stainless Steel 1 - Black Anodized	None - Silver G - Gold	3 - Ring, moveable with actuator 6 - Ring / Power Symbol, moveable with actuator (Stainless Steel only)	0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow G - Red / Green P - Green / Yellow	1 - 3V 3 - 6V 4 - 12V 5 - 24V 6 - 110V 7 - 220V

NOTES:

*() denotes function is momentary

Specifications subject to change without notice 5.2.2019



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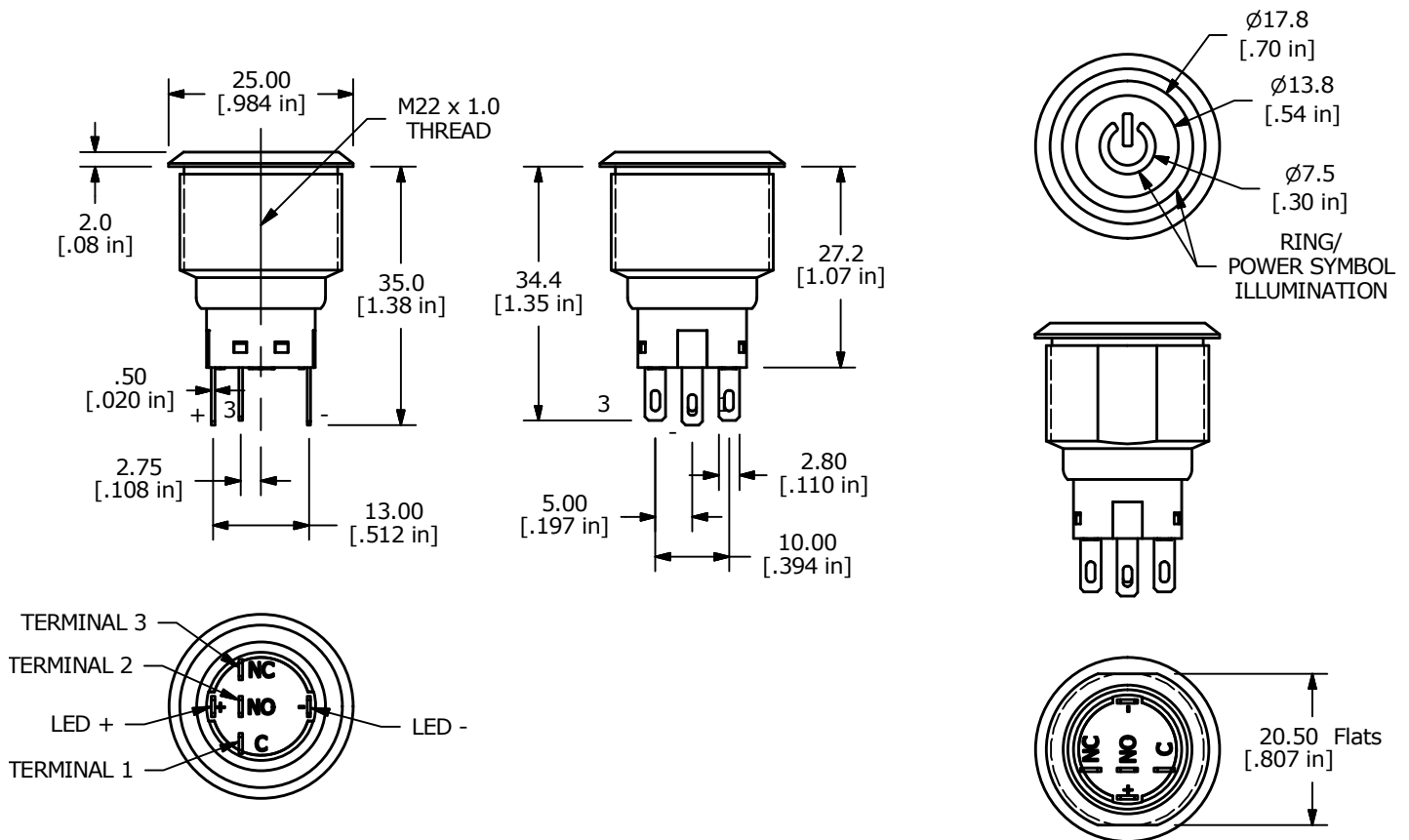
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1

ULV7 SERIES ANTI-VANDAL SWITCH

BODY DIMENSIONS - SPDT

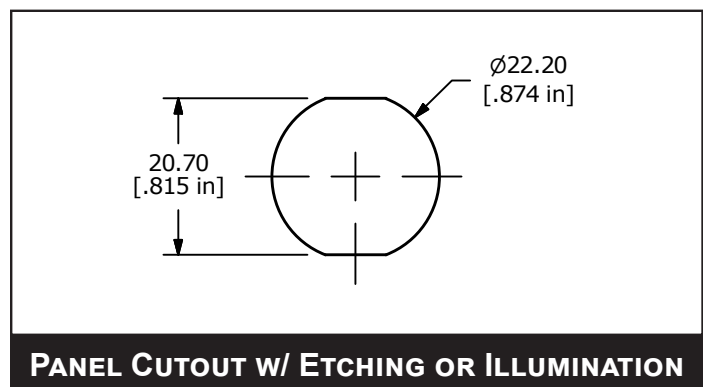
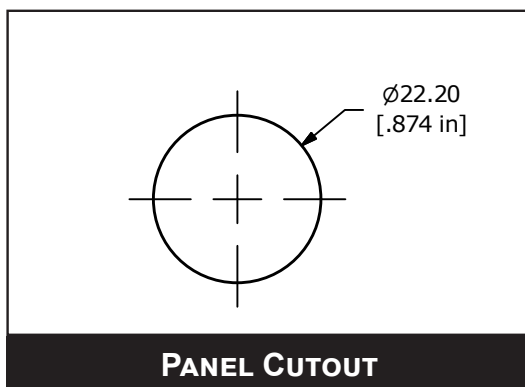


SPDT SWITCH DIMENSIONS

HOUSING WITH FLATS (SPDT OR DPDT) USED ON SWITCHES WITH RING/POWER SYMBOL OR OTHER CUSTOM GRAPHICS (SPDT SHOWN)

(SEE STANDARD SPDT OR DPDT DIMENSIONAL LAYOUT FOR OTHER DIMENSIONS)

GRAPHIC OPTIONS



E-SWITCH®

www.e-switch.com

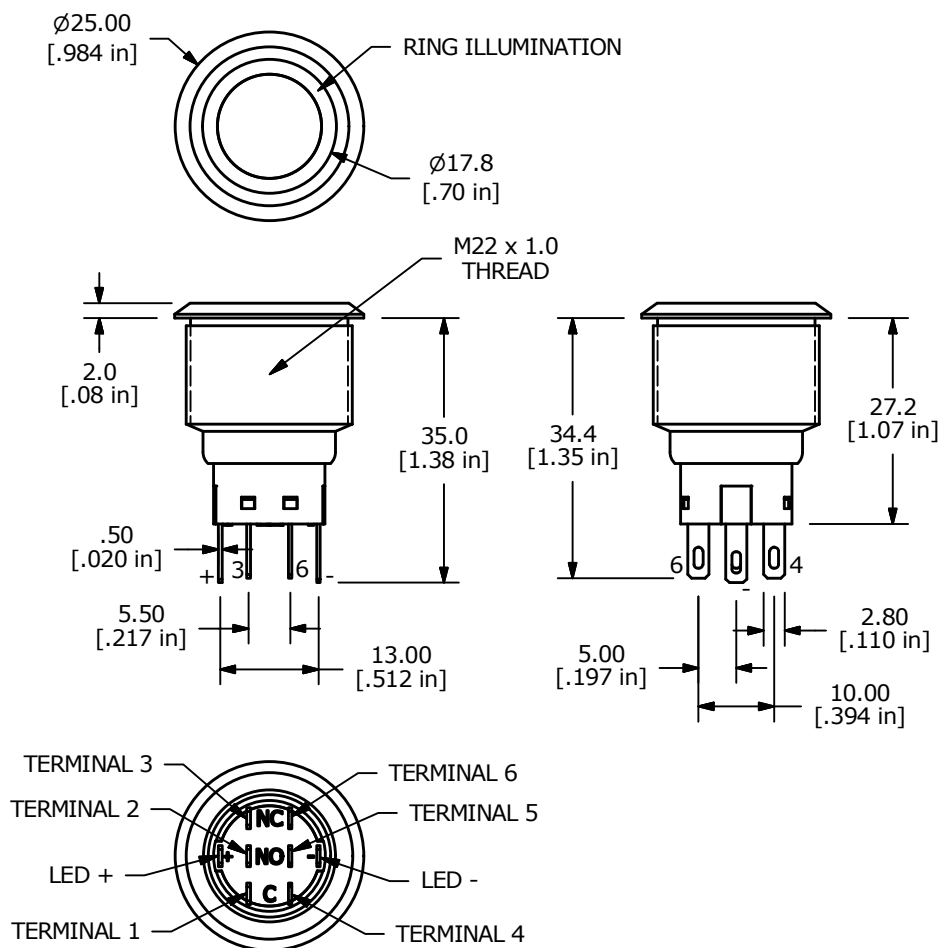
800.867.2717

2

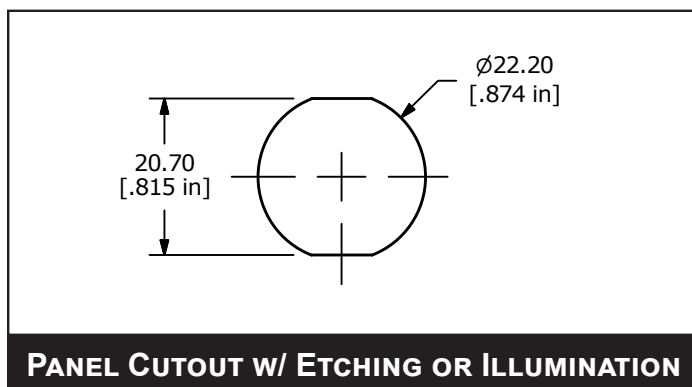
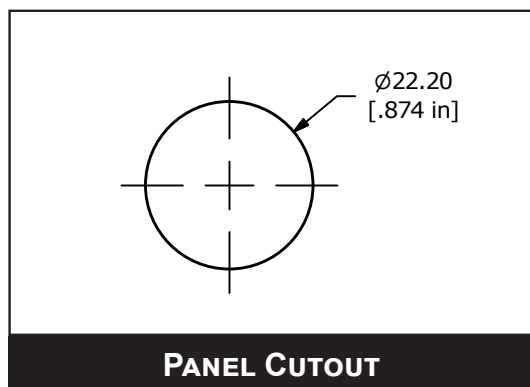
ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS

ULV7 SERIES ANTI-VANDAL SWITCH

BODY DIMENSIONS - DPDT



DPDT Switch Dimensions



E-SWITCH®

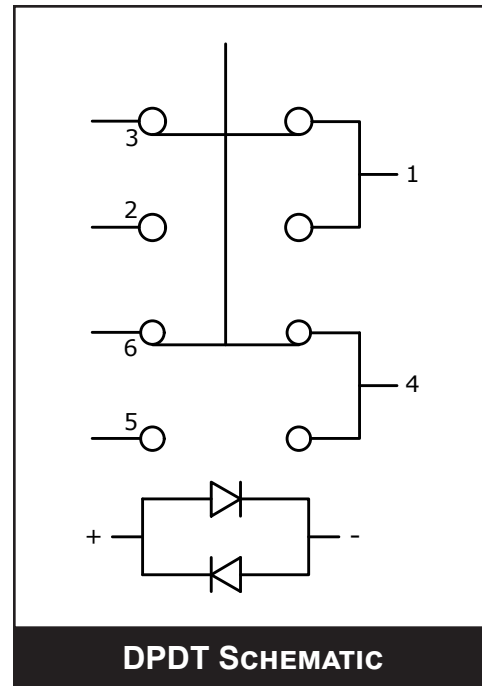
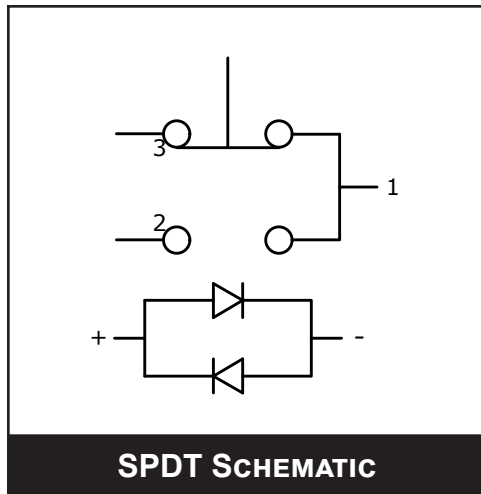
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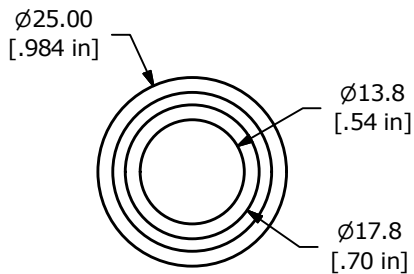
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ULV7 SERIES ANTI-VANDAL SWITCH

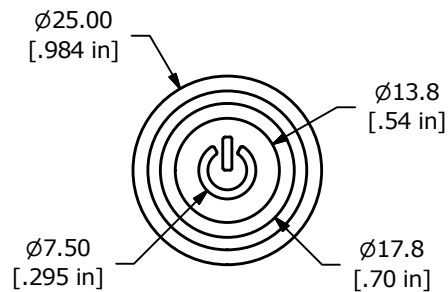
SCHEMATICS



ACTUATOR OPTIONS



RING ILLUMINATED



RING/POWER SYMBOL ILLUMINATED



E-SWITCH®

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4

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

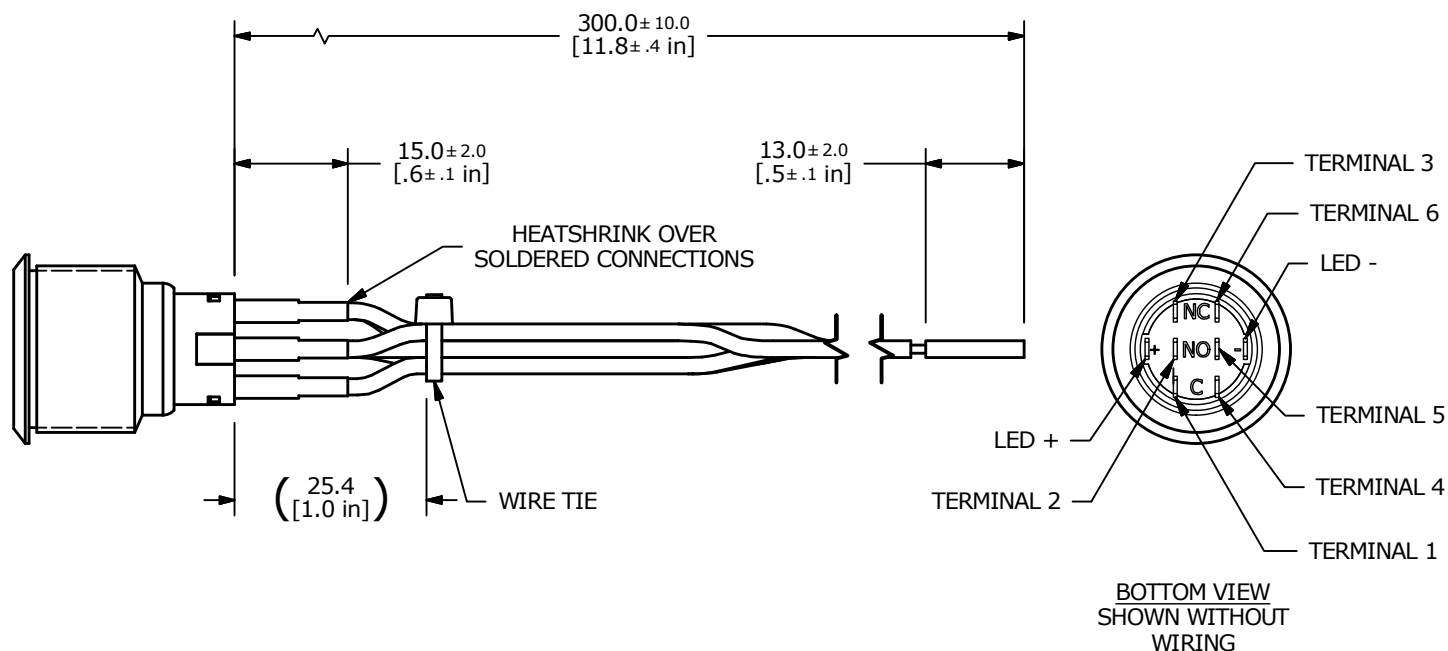
CAP
OPTIONS

ULV7 SERIES ANTI-VANDAL SWITCH

WIRE LEADS

SWITCH	WIRE	LENGTH
SW1-1	WIRE, 24AWG AWM UL1015, BLUE	300.0 [11.8 in]
SW1-2	WIRE, 24AWG AWM UL1015, PURPLE	300.0 [11.8 in]
SW1-3	WIRE, 24AWG AWM UL1015, GREEN	300.0 [11.8 in]
SW1-4	WIRE, 24AWG AWM UL1015, WHITE	300.0 [11.8 in]
SW1-5	WIRE, 24AWG AWM UL1015, ORANGE	300.0 [11.8 in]
SW1-6	WIRE, 24AWG AWM UL1015, YELLOW	300.0 [11.8 in]
SW1- (-)	WIRE, 24AWG AWM UL1015, BLACK	300.0 [11.8 in]
SW1- (+)	WIRE, 24AWG AWM UL1015, RED	300.0 [11.8 in]

** WIRE LEADS PROVIDED ARE DEPENDANT ON THE FUNCTION SELECTED **



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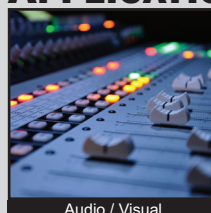
5

ULV8 SERIES ANTI-VANDAL 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



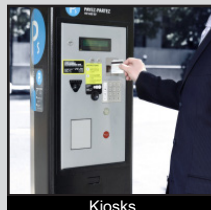
Audio / Visual



Security Devices



Industrial Controls



Kiosks



Electrical Housewares



Medical Equipment

C **RU** US

RoHS

SPECIFICATIONS

Electrical Rating: 3A, 125/250VAC
Mechanical Life: 1,000,000 cycles (momentary); 500,000 cycles (latching)
Electrical Life: 50,000 Cycles
Contact Resistance: 50mΩ
Insulation Resistance: 1000 MΩ @ 500VDC
Dielectric Strength: 2,000VAC
Operating/Storage Temperature: -20°C to 55°C
Travel: 3.2mm
Moisture Protection: IP67
Contact Arrangement: SPDT or DPDT
Actuation Force: Single Pole: 2.5N; Double Pole: 3.5N
Panel Thickness: 1-10mm
Hex Nut Torque: 5-14Nm
Mechanical Impact Protection: IK08
Agency Approvals: cURus

FEATURES & BENEFITS

- 25mm diameter panel cutout
- Ring illumination
- Multiple switch functions available
- Multiple illumination voltage options
- IP67 rated
- SPDT or DPDT
- UL Certified
- Soldered wire leads (300mm long) optional

PART NUMBER CONFIGURATOR

Series	Actuator	Terminal	Function	Body Finish	Actuator Finish	Contact Material	Lens Style	LED Color	Illumination Voltage
ULV8	F - Flat	2 - Solder Wire Leads 300mm long	3 - 1P ON-ON
B - 1P ON-(ON)*
G - 2P ON-ON
H - 2P ON-(ON)*	S - Stainless Steel
1 - Black Anodized	S - Stainless Steel
1 - Black Anodized	None - Silver
G - Gold	3 - Ring, moveable with actuator	0 - White
1 - Red
2 - Orange
3 - Green
4 - Blue
5 - Yellow
G - Red / Green
P - Green / Yellow	1 - 3V
3 - 6V
4 - 12V
5 - 24V
6 - 110V
7 - 220V

NOTES:

*() denotes function is momentary

Specifications subject to change without notice 5.2.2019



E-SWITCH®

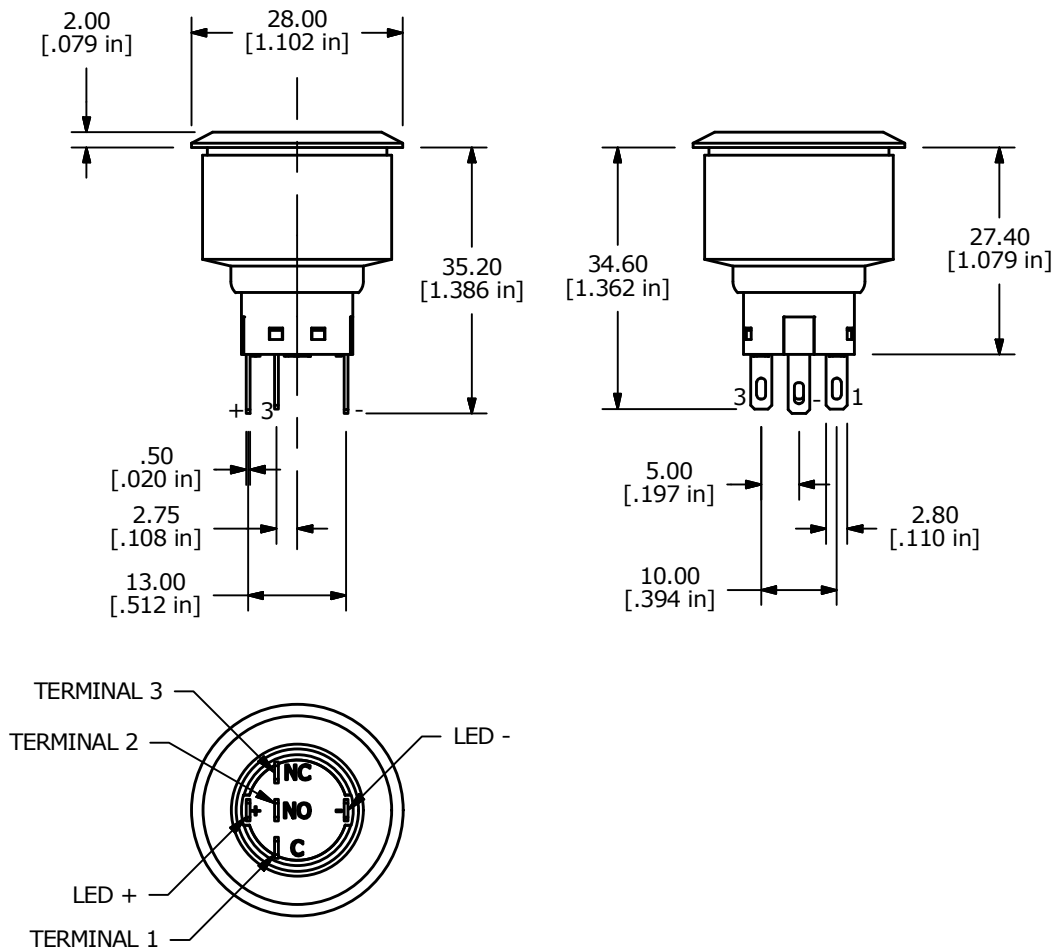
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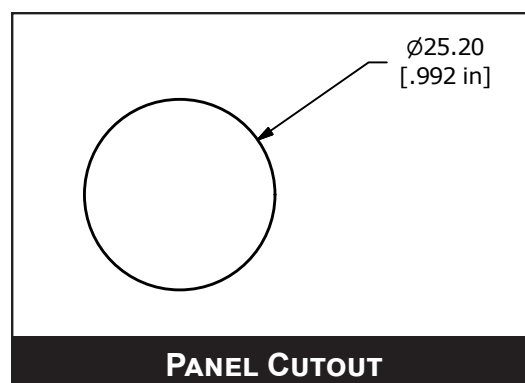
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ULV8 SERIES ANTI-VANDAL SWITCH

BODY DIMENSIONS - SPDT

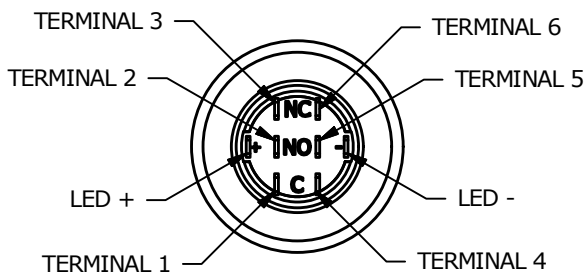
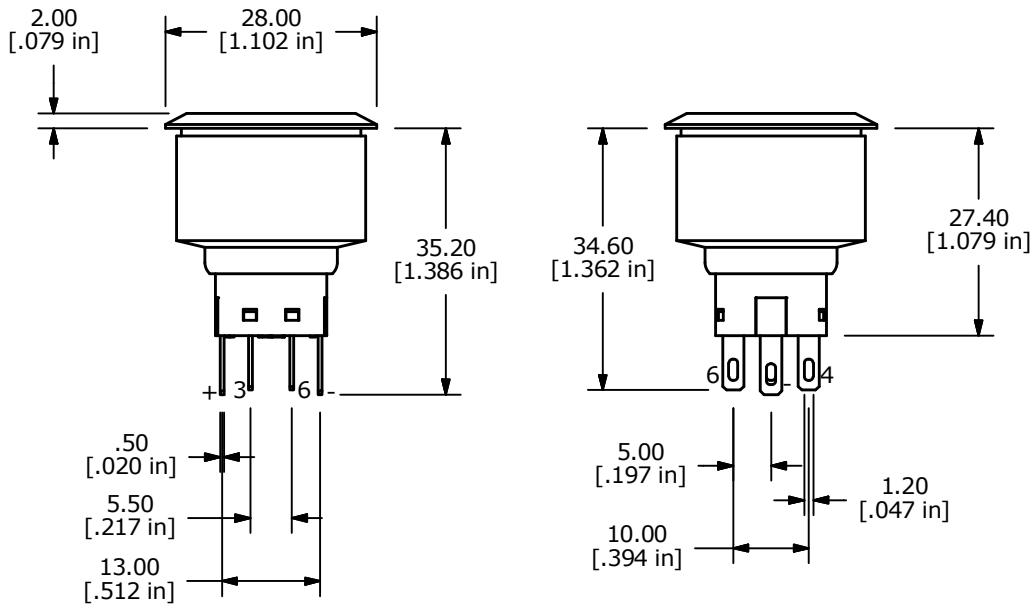


SPDT SWITCH DIMENSIONS

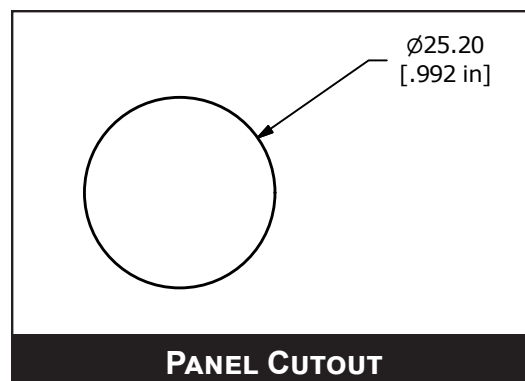


ULV8 SERIES ANTI-VANDAL SWITCH

BODY DIMENSIONS - DPDT

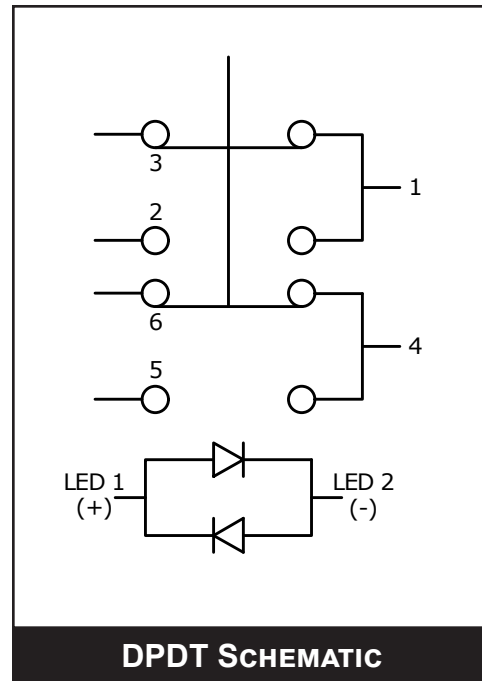
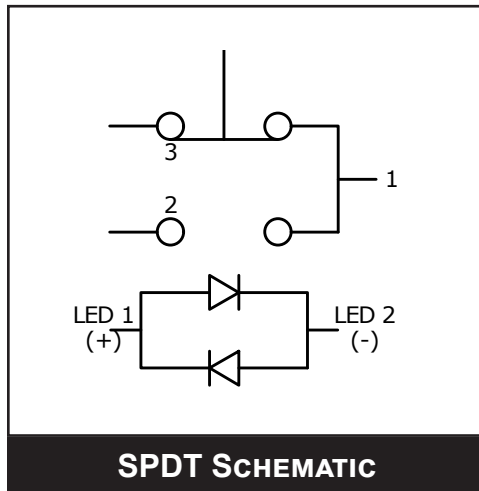


DPDT SWITCH DIMENSIONS

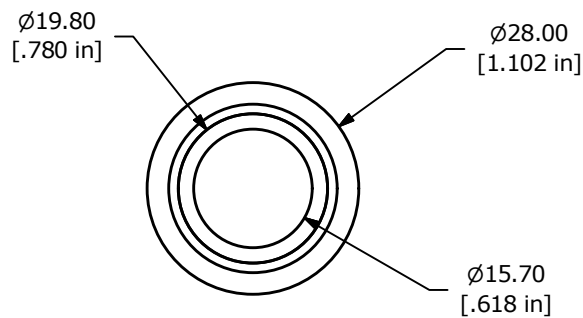


ULV8 SERIES ANTI-VANDAL SWITCH

SCHEMATICS



ACUATOR OPTIONS



RING ILLUMINATED



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4

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

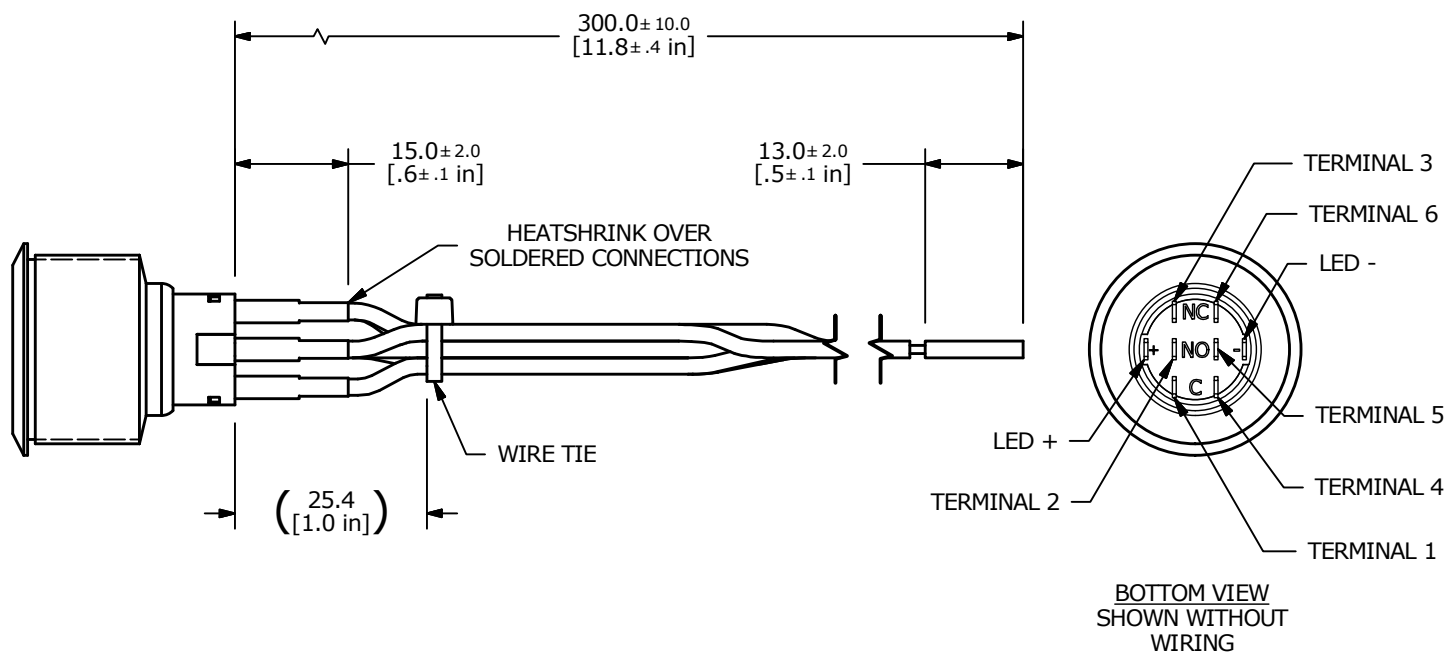
CAP
OPTIONS

ULV8 SERIES ANTI-VANDAL SWITCH

WIRE LEADS

SWITCH	WIRE	LENGTH
SW1-1	WIRE, 24AWG AWM UL1015, BLUE	300.0 [11.8 in]
SW1-2	WIRE, 24AWG AWM UL1015, PURPLE	300.0 [11.8 in]
SW1-3	WIRE, 24AWG AWM UL1015, GREEN	300.0 [11.8 in]
SW1-4	WIRE, 24AWG AWM UL1015, WHITE	300.0 [11.8 in]
SW1-5	WIRE, 24AWG AWM UL1015, ORANGE	300.0 [11.8 in]
SW1-6	WIRE, 24AWG AWM UL1015, YELLOW	300.0 [11.8 in]
SW1- (-)	WIRE, 24AWG AWM UL1015, BLACK	300.0 [11.8 in]
SW1- (+)	WIRE, 24AWG AWM UL1015, RED	300.0 [11.8 in]

** WIRE LEADS PROVIDED ARE DEPENDANT ON THE FUNCTION SELECTED **



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