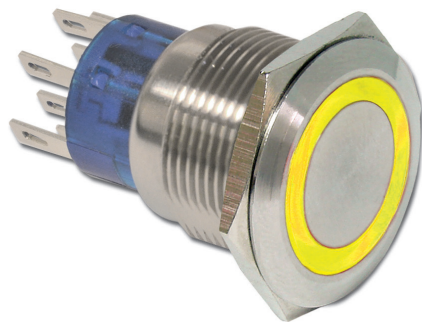
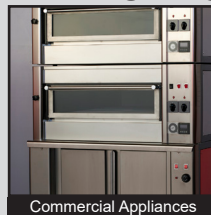


ULV7 SERIES ANTI-VANDAL SWITCH



APPLICATIONS / MARKETS



Commercial Appliances



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 Max. at 1A 12VDC
Insulation Resistance: 1,000MΩ min. @ 500 VDC
Dielectric Strength: 2,000VAC for 1 minute
Operating/Storage Temperature: -20°C to 55°C
Travel: 3.2mm
Moisture Protection: IP67
Contact Arrangement: SPDT or DPDT
Actuation Force: SPDT: 2.5N; DPDT: 3.5N,
 Molded Back: SPDT & DPDT: 5.5N
Panel Thickness: 1-10mm
Hex Nut Torque: 5-14Nm
Mechanical Impact Protection: IK10 (Stainless)
Agency Approvals: cURus

FEATURES & BENEFITS

- 22mm diameter panel cutout
- Ring or Ring/Power symbol 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
- Detachable socket w/ wire leads (500mm long) optional
- Molded back w/ wire leads (500mm long) optional

PART NUMBER CONFIGURATOR

Series	Actuator	Terminal	Function	Body Finish	Actuator Finish	Contact Material	Lens Style	LED Color	Illumination Voltage	Graphic Options
ULV7	F - Flat	2 - Solder Lug	3 - 1P ON-ON	S - Stainless Steel	S - Stainless Steel	None - Silver	3 - Ring	0 - White	1 - 3V	L17 - Bluetooth
		W - Wire Leads	B - 1P ON-(ON)*	1 - Black	1 - Black	G - Gold	6 - Ring/Power	1 - Red	3 - 6V	L18 - Wifi
		P - Detachable	G - 2P ON-ON	Anodized	Anodized		Symbol	2 - Orange	5 - 24V	L20 - START
		Socket w/ Wire Leads	H - 2P ON-(ON)*		L - Silver for Graphic		Illumination, moveable with actuator	3 - Green	6 - 110V	L21 - OFF
		M - Molded Back w/ Wire Leads					Illumination, moveable with actuator (Stainless Steel only)	4 - Blue	7 - 220V	L22 - ON
							L - Graphic Illumination (Only Available with L Actuator Finish)	5 - Yellow		L35 - STOP
								F - Red / Orange		
								G - Red / Green		
								H - Red / Blue		
								J - Red / Yellow		
								K - Orange / Green		
								N - Blue / Green		
								P - Green / Yellow		
								Q - Blue / Yellow		

NOTES:

* () denotes function is momentary

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Specifications subject to change without notice 8.1.2022



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1

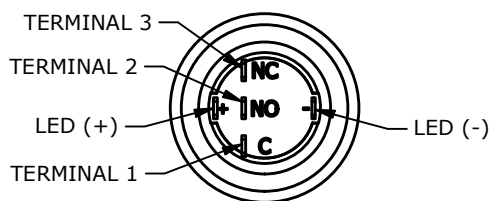
ANTI-VANDAL SWITCHES	DETECTOR SWITCHES	DIP SWITCHES	KEYLOCK SWITCHES	NAVIGATION SWITCHES	PUSHBUTTON SWITCHES	ROCKER SWITCHES	ROTARY SWITCHES	SLIDE SWITCHES	SNAP ACTION SWITCHES	TACTILE SWITCHES	TOGGLE SWITCHES	CAP OPTIONS
----------------------	-------------------	--------------	------------------	---------------------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

The left drawing shows a threaded connector with the following dimensions:

- Top flange thickness: 2.0 [.08 in]
- Threaded section length: 25.00 [.984 in] (M22 X 1.0 THREAD)
- Main body height: 35.0 [1.38 in]
- Terminal block height: .50 [.020 in]
- Terminal pitch: 2.75 [.108 in]
- Total height: 13.00 [.512 in]

The right drawing shows a push-on connector with the following dimensions:

- Top flange thickness: 27.2 [1.07 in]
- Main body height: 34.4 [1.35 in]
- Terminal block height: 2.80 [.110 in]
- Terminal pitch: 5.00 [.197 in]
- Total height: 10.00 [.394 in]

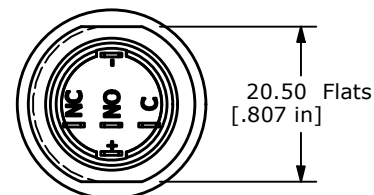
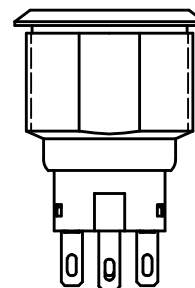


Ø17.8
[.70 in]

Ø13.8
[.54 in]

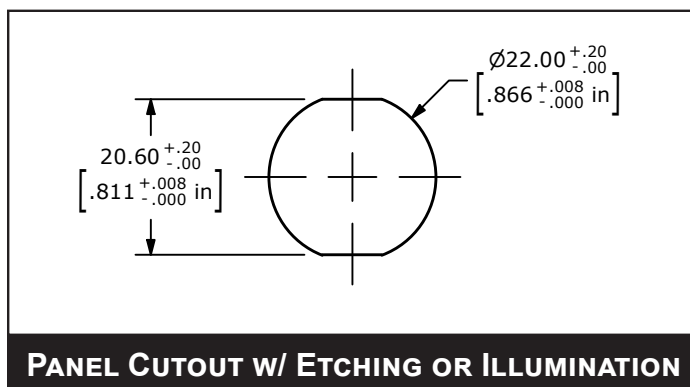
Ø7.5
[.30 in]

RING/
POWER SYMBOL
ILLUMINATION



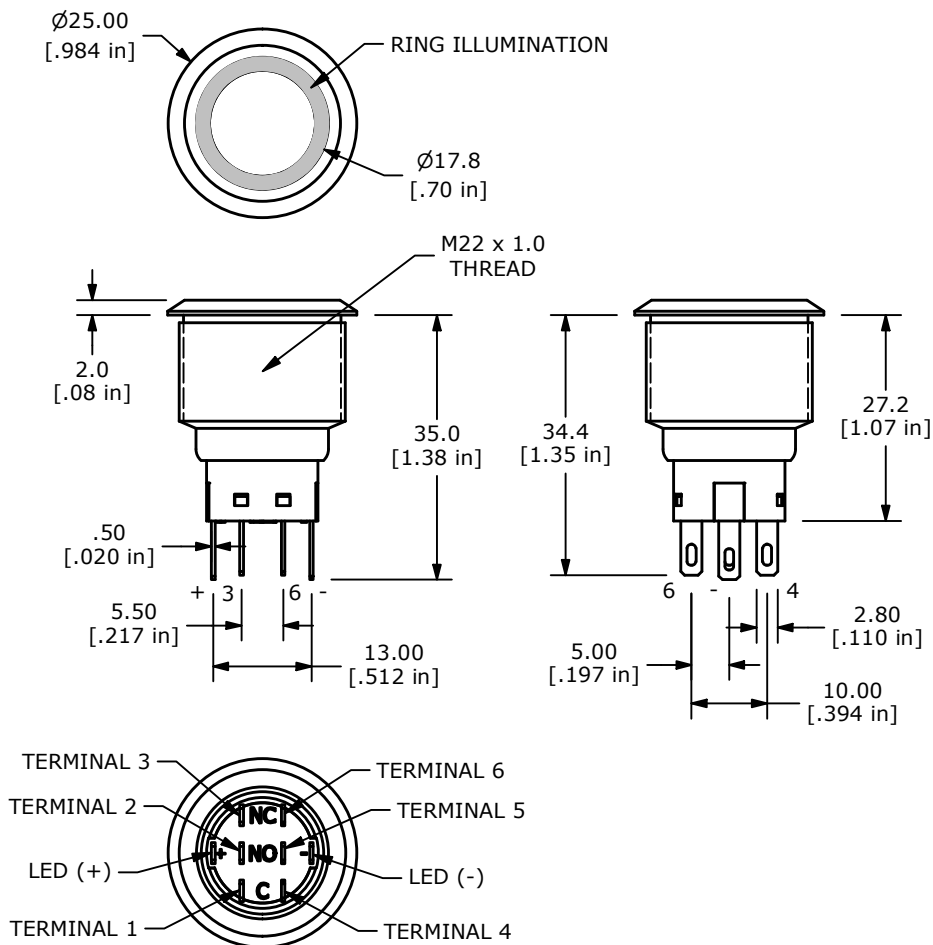
(SEE STANDARD SPDT OR DPDT
DIMENSIONAL LAYOUT FOR OTHER
DIMENSIONS)

The diagram shows a circle representing a panel cutout. It is centered with a crosshair. A dimension line points from the center to the right edge of the circle, indicating a radius. The dimension is given as $\text{Ø}22.00^{+.20}_{-.00}$ and $[\text{.866}^{+.008}_{-.000} \text{ in}]$.

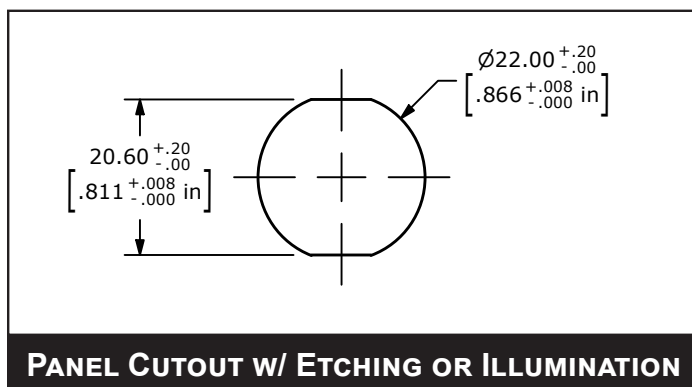
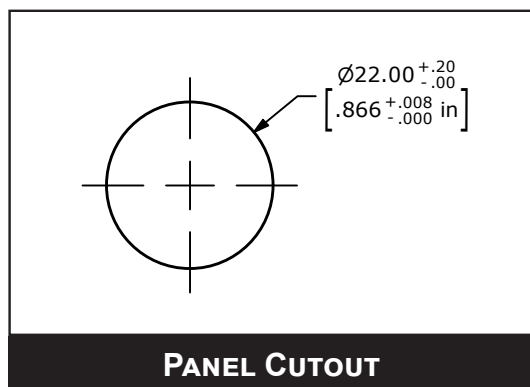


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BODY DIMENSIONS - DPDT



DPDT Switch Dimensions



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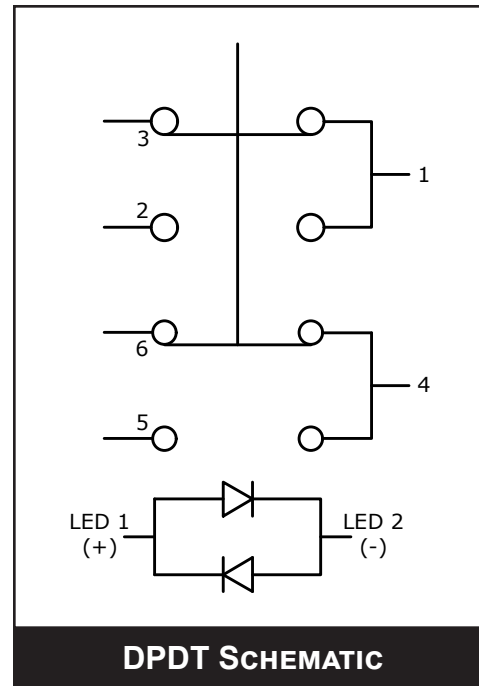
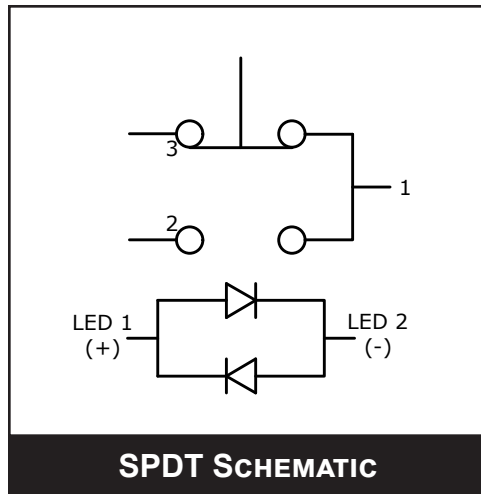
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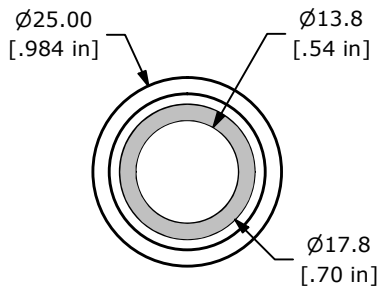
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ULV7 SERIES ANTI-VANDAL SWITCH

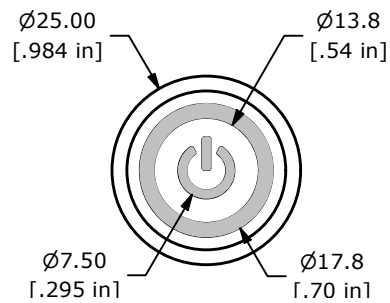
SCHEMATICS



ACTUATOR OPTIONS



RING ILLUMINATED



RING / POWER SYMBOL ILLUMINATED



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KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS

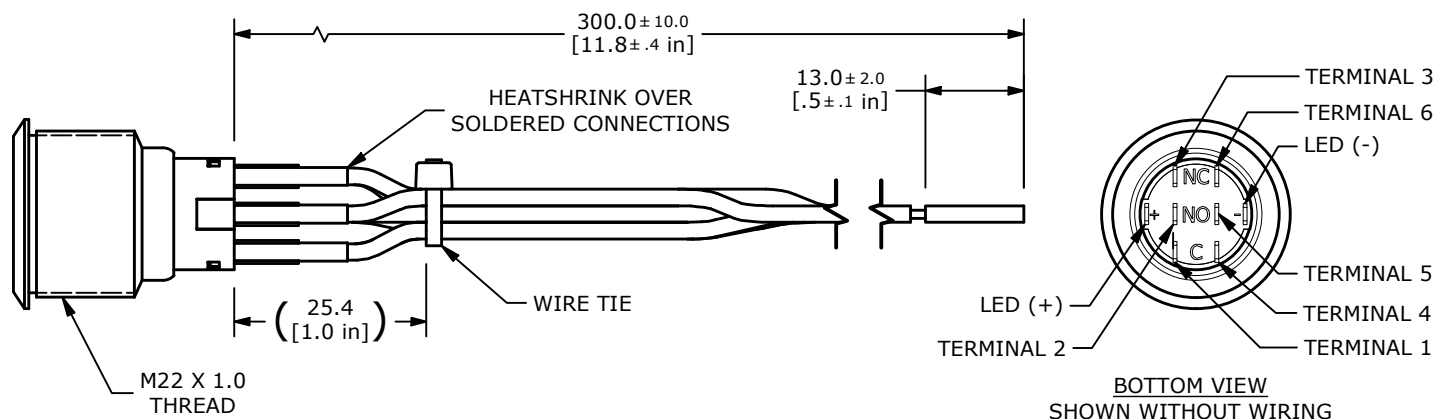
ULV7 SERIES ANTI-VANDAL SWITCH

WIRE OPTIONS

W - Wire Leads
300mm long

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]

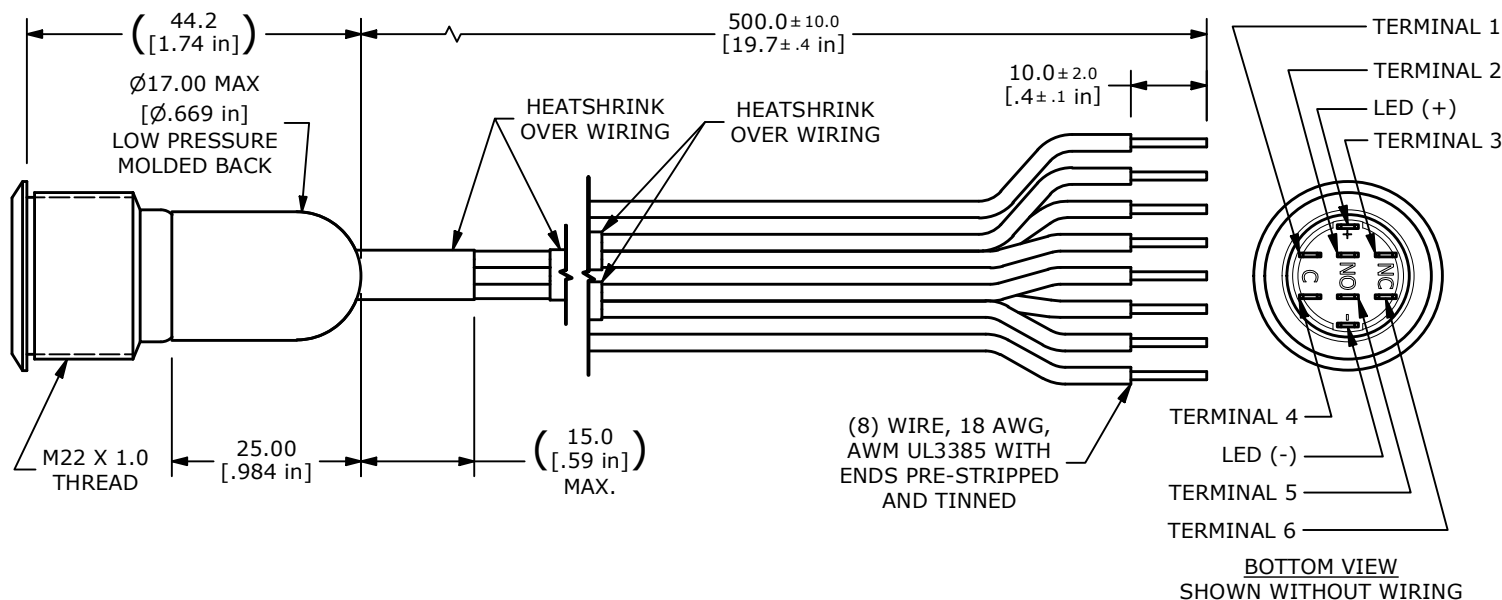
** WIRE LEADS PROVIDED ARE DEPENDENT ON THE FUNCTION SELECTED **



M - Molded Back
w/ Wire Leads
500mm long

SWITCH	WIRE	LENGTH
SW1-1	WIRE, 18 AWG AWM UL3385, YELLOW	500.0 [19.7 in]
SW1-2	WIRE, 18 AWG AWM UL3385, PURPLE	500.0 [19.7 in]
SW1-3	WIRE, 18 AWG AWM UL3385, GREEN	500.0 [19.7 in]
SW1-4	WIRE, 18 AWG AWM UL3385, YELLOW	500.0 [19.7 in]
SW1-5	WIRE, 18 AWG AWM UL3385, PURPLE	500.0 [19.7 in]
SW1-6	WIRE, 18 AWG AWM UL3385, GREEN	500.0 [19.7 in]
SW1- (-)	WIRE, 18 AWG AWM UL3385, BLACK	500.0 [19.7 in]
SW1- (+)	WIRE, 18 AWG AWM UL3385, RED	500.0 [19.7 in]

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



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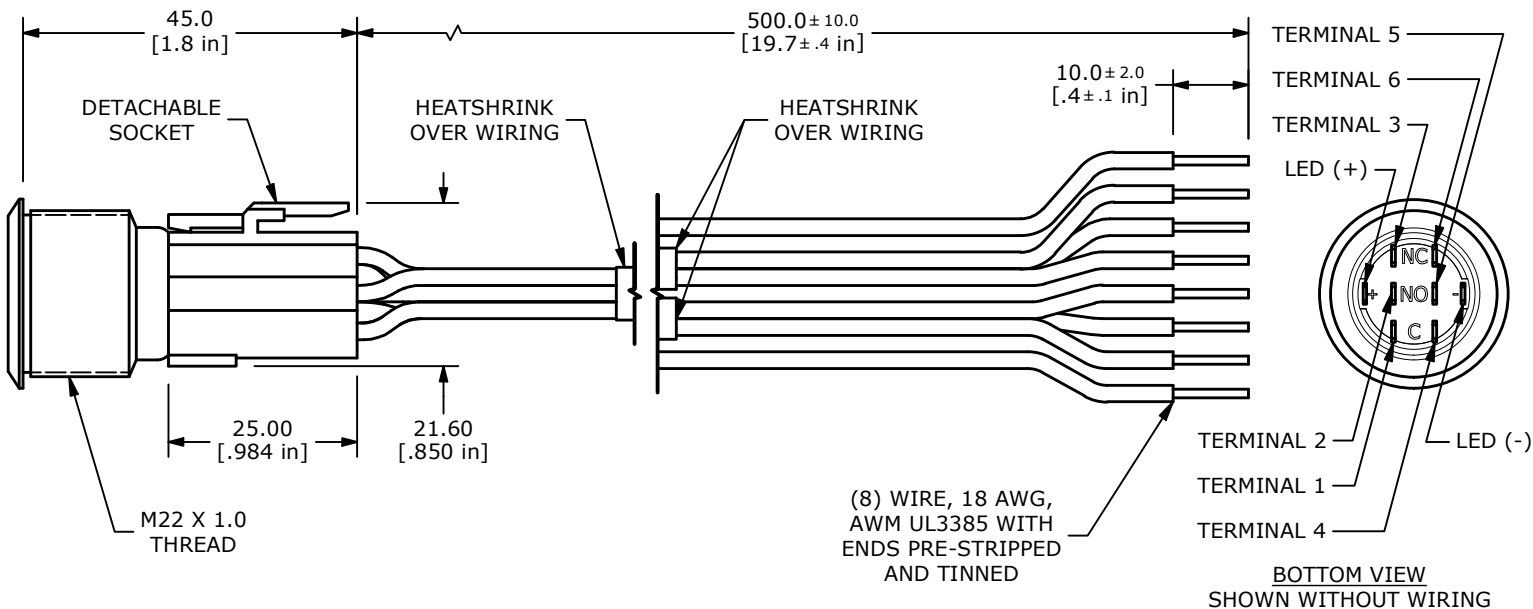
ULV7 SERIES ANTI-VANDAL SWITCH

WIRE OPTIONS

P - Detachable Socket
w/ Wire Leads
500mm long

SWITCH	WIRE	LENGTH
SW1-1	WIRE, 18 AWG AWM UL3385, GREEN	500.0 [19.7 in]
SW1-2	WIRE, 18 AWG AWM UL3385, PURPLE	500.0 [19.7 in]
SW1-3	WIRE, 18 AWG AWM UL3385, YELLOW	500.0 [19.7 in]
SW1-4	WIRE, 18 AWG AWM UL3385, GREEN	500.0 [19.7 in]
SW1-5	WIRE, 18 AWG AWM UL3385, PURPLE	500.0 [19.7 in]
SW1-6	WIRE, 18 AWG AWM UL3385, YELLOW	500.0 [19.7 in]
SW1- (-)	WIRE, 18 AWG AWM UL3385, BLACK	500.0 [19.7 in]
SW1- (+)	WIRE, 18 AWG AWM UL3385, RED	500.0 [19.7 in]

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



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SWITCHES

ROCKER
SWITCHES

ROTARY
SWITCHES

SLIDE
SWITCHES

SNAP ACTION
SWITCHES

TACTILE
SWITCHES

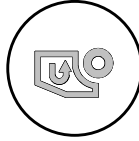
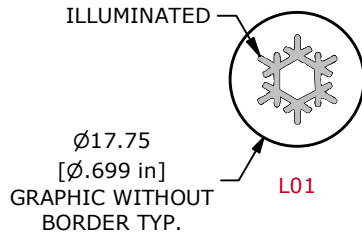
TOGGLE
SWITCHES

CAP
OPTIONS

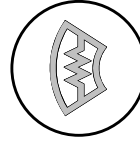
ULV7 SERIES ANTI-VANDAL SWITCH

GRAPHIC OPTIONS

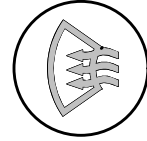
** REFER TO BODY DIMENSION PAGES 2 & 3 FOR GRAPHIC ORIENTATION **



L02



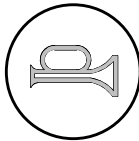
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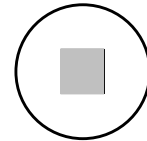
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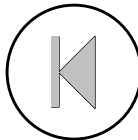
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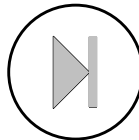
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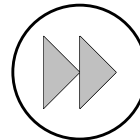
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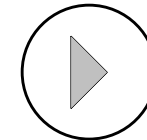
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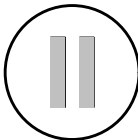
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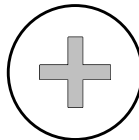
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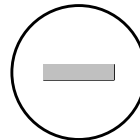
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L13



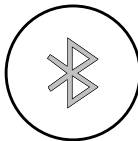
L14



L15



L16



L17



L18



L19



L20



L21



L22



L23



L24



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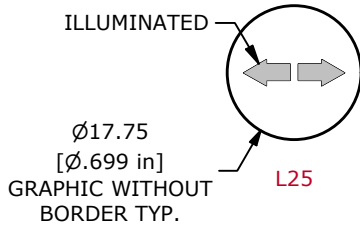
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GRAPHIC OPTIONS (CONT.)

** REFER TO BODY DIMENSION PAGES 2 & 3 FOR GRAPHIC ORIENTATION **



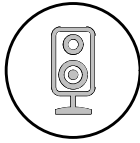
L26



L27



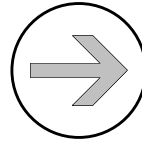
L28



L29



L30



L31



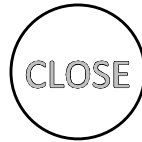
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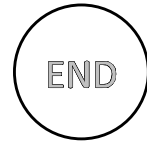
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L36



L37



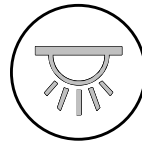
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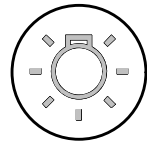
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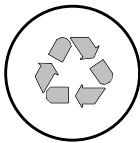
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L44



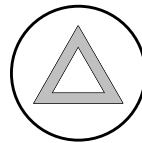
L45



L46



L47



L48

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SWITCHES

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SWITCHES

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