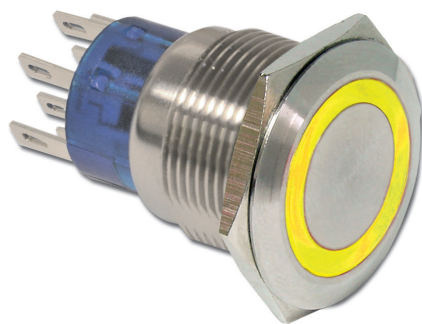


ULV7 SERIES ANTI-VANDAL SWITCH



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: 2,000V RMS at sea level
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
ULV7	F - Flat	2 - Solder Lug W - Wire Leads 300mm long P - Detachable Socket w/ Wire Leads 500mm long M - Molded Back w/ Wire Leads 500mm 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 L - Silver for Graphic	None - Silver G - Gold	3 - Ring, movable with actuator 6 - Ring / Power Symbol, movable with actuator (Stainless Steel only) L - Graphic	0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow F - Red / Orange G - Red / Green H - Red / Blue J - Red / Yellow K - Orange / Green N - Blue / Green P - Green / Yellow Q - Blue / Yellow	1 - 3V 3 - 6V 4 - 12V 5 - 24V 6 - 110V 7 - 220V

NOTES:

* () denotes function is momentary
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Specifications subject to change without notice 10.22.2021



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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
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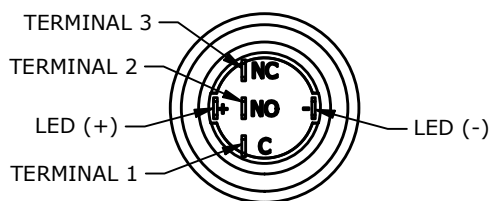
Technical drawings of the M22 X 1.0 THREADED connector, showing front and side views with dimensions in inches and millimeters.

Front View (Left):

- Top flange diameter: 25.00 [.984 in]
- Top flange thickness: 2.0 [.08 in]
- Thread specification: M22 X 1.0 THREADED
- Body height: 35.0 [1.38 in]
- Terminal block height: .50 [.020 in]
- Terminal pitch: 2.75 [.108 in]
- Terminal width: 13.00 [.512 in]
- Terminal positions: +, 3, -

Side View (Right):

- Overall height: 34.4 [1.35 in]
- Terminal block height: 27.2 [1.07 in]
- Terminal pitch: 2.80 [.110 in]
- Terminal width: 10.00 [.394 in]
- Terminal positions: 3, -, 1

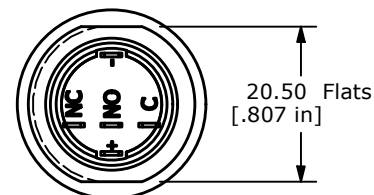
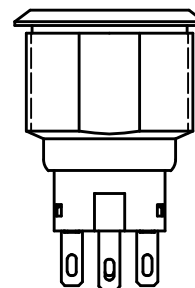


Ø17.8
[.70 in]

Ø13.8
[.54 in]

Ø7.5
[.30 in]

RING/
POWER SYMBOL
ILLUMINATION

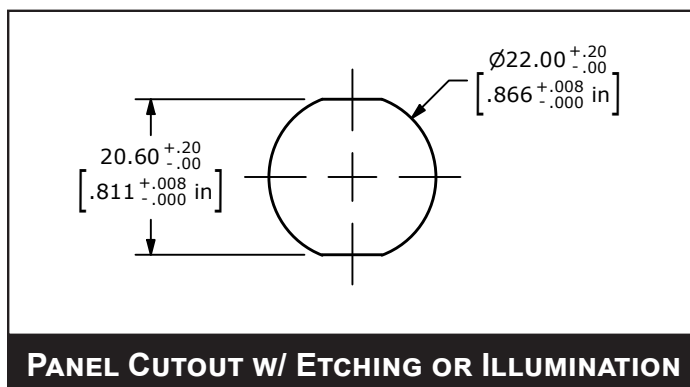


HOUSING WITH FLATS (SPDT OR DPDT) USED ON SWITCHES WITH RING/POWER SYMBOL OR OTHER CUSTOM GRAPHICS (SPDT SHOWN)

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

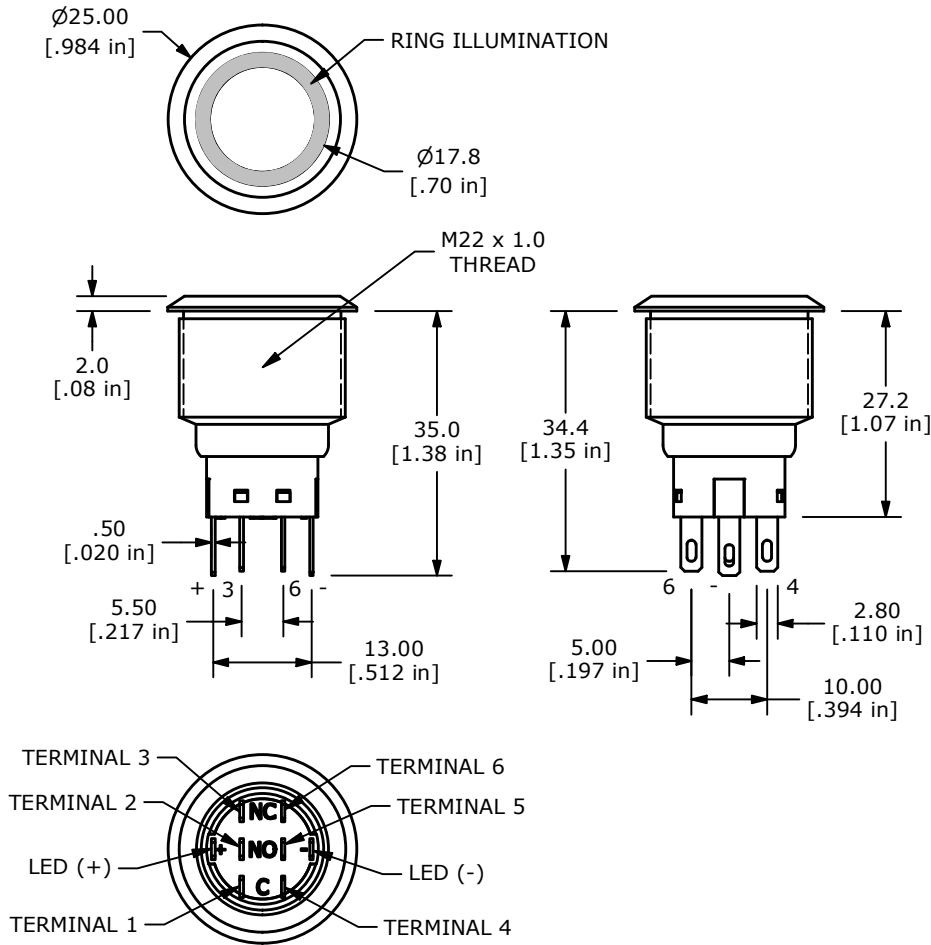
Technical drawing of a circular panel cutout. The drawing shows a circle with a center crosshair. A dimension line points to the circle with the following specifications:

- Overall diameter: $\varnothing 22.00^{+.20}_{-.00}$
- Positional tolerance: $[\begin{matrix} .866^{+.008} \\ -.000 \end{matrix} \text{ in}]$

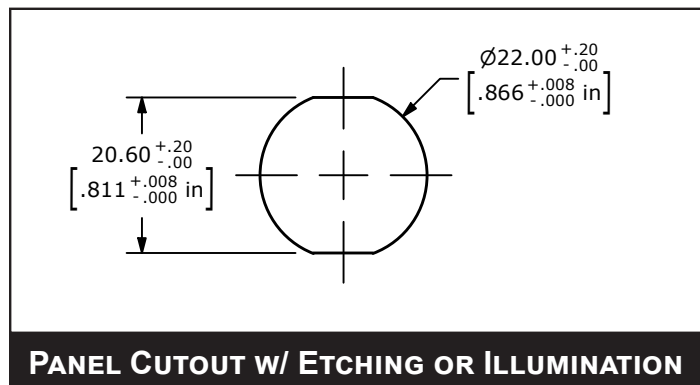
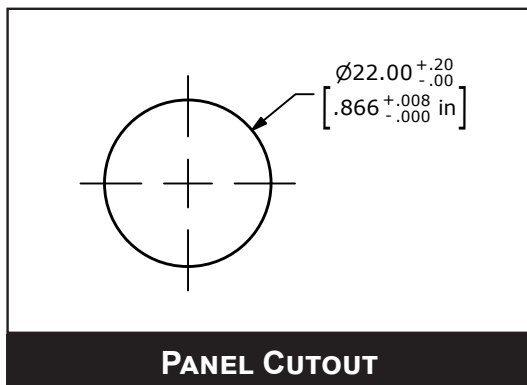


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BODY DIMENSIONS - DPDT



DPDT Switch Dimensions



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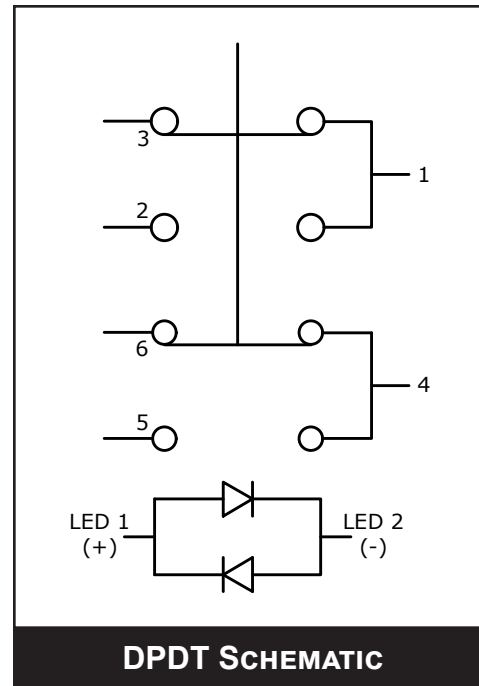
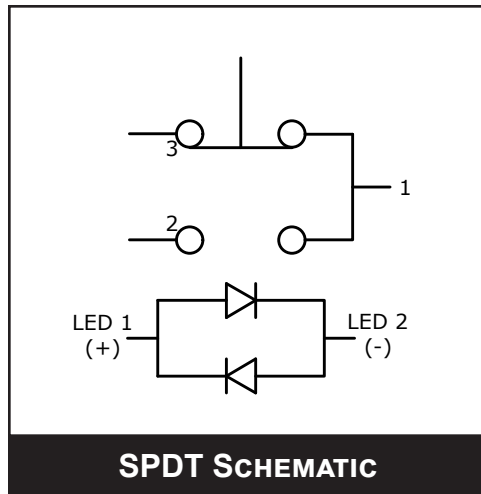
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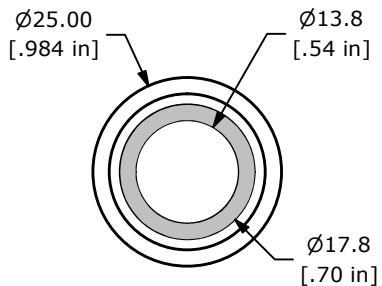
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ULV7 SERIES ANTI-VANDAL SWITCH

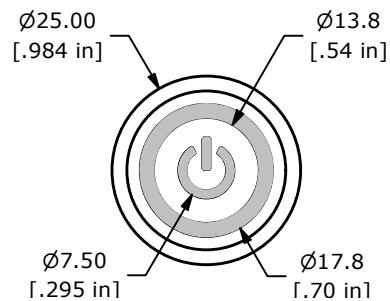
SCHEMATICS



ACTUATOR OPTIONS



RING ILLUMINATED



RING / POWER SYMBOL ILLUMINATED



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SWITCHES

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SWITCHES

ROTARY
SWITCHES

SLIDE
SWITCHES

SNAP ACTION
SWITCHES

TACTILE
SWITCHES

TOGGLE
SWITCHES

CAP
OPTIONS

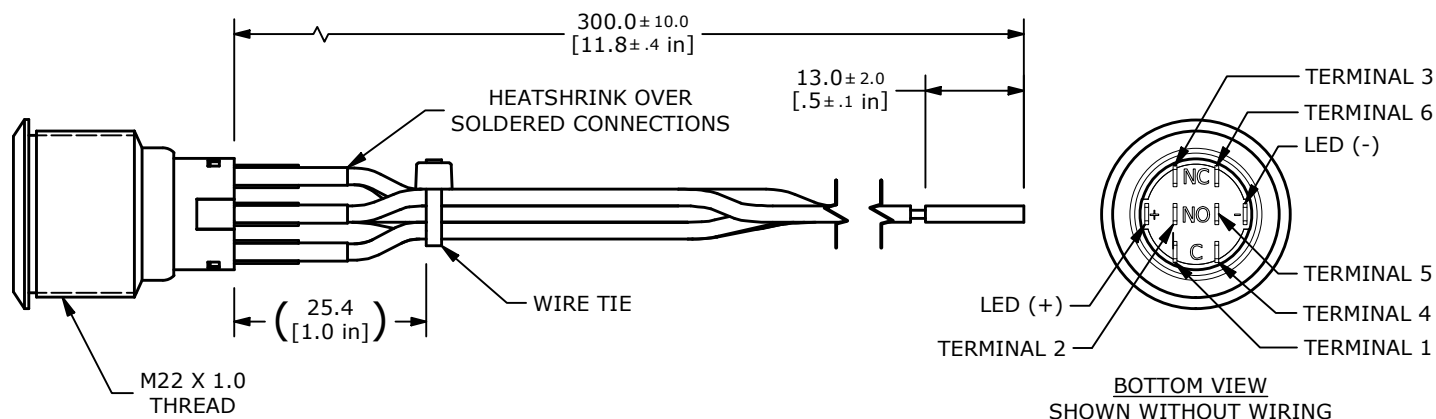
ULV7 SERIES ANTI-VANDAL SWITCH

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]

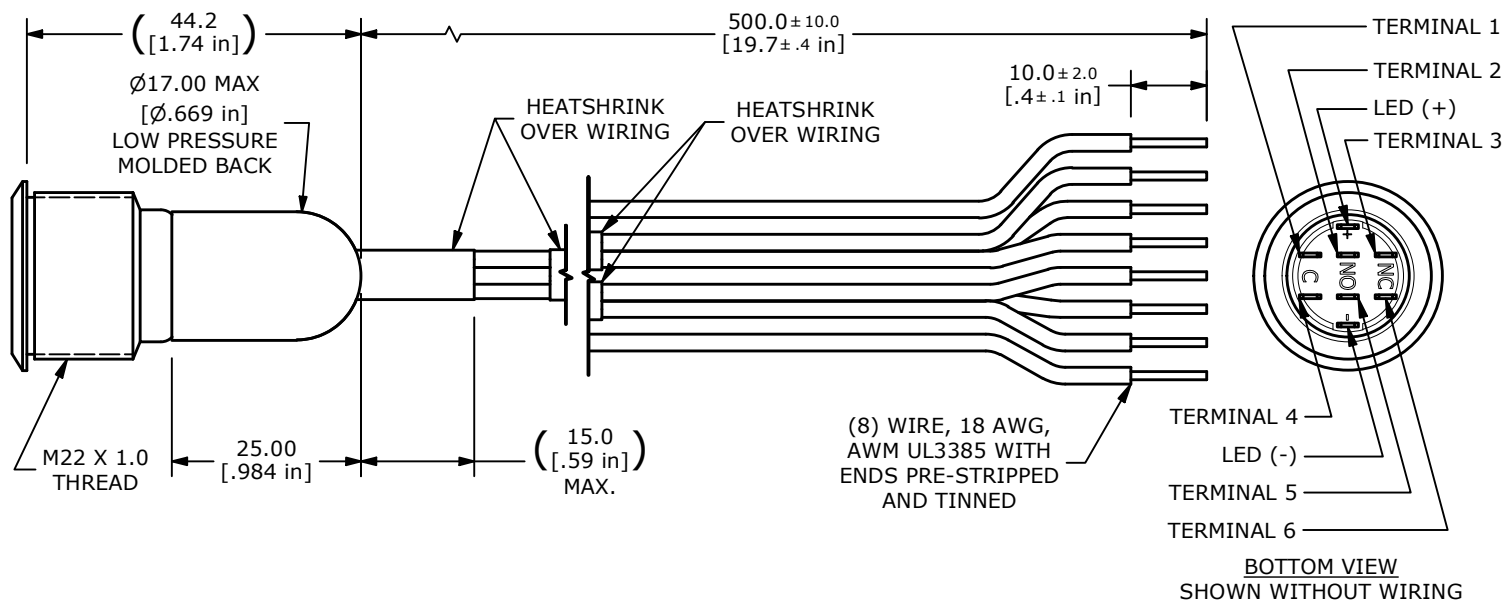
** WIRE LEADS PROVIDED ARE DEPENDENT ON THE FUNCTION SELECTED **



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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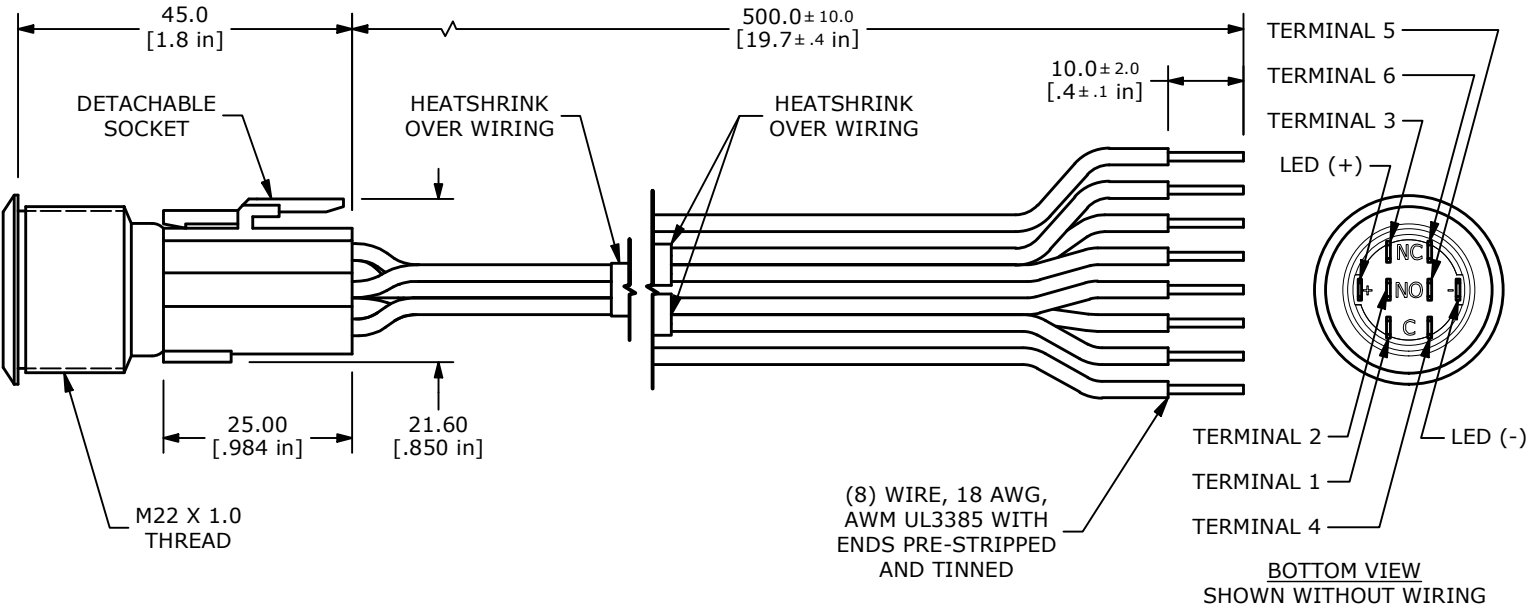
ULV7 SERIES ANTI-VANDAL SWITCH

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]

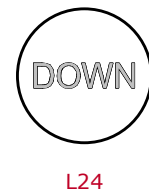
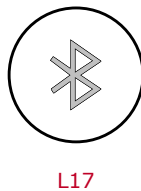
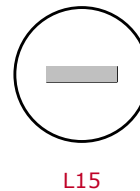
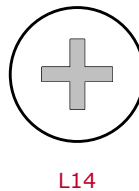
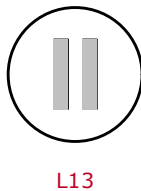
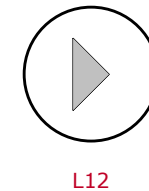
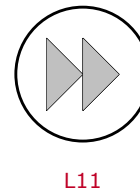
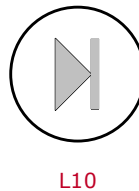
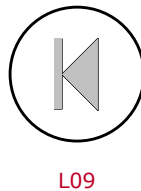
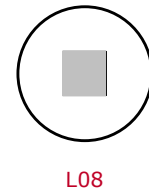
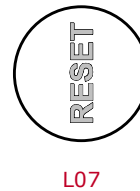
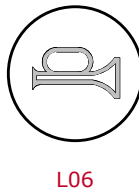
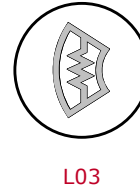
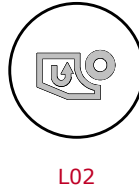
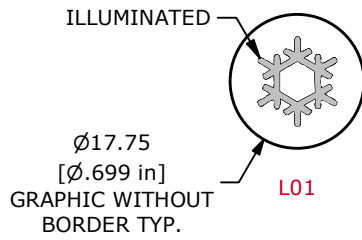
** WIRE LEADS PROVIDED ARE DEPENDENT ON THE FUNCTION SELECTED **



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GRAPHIC OPTIONS

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



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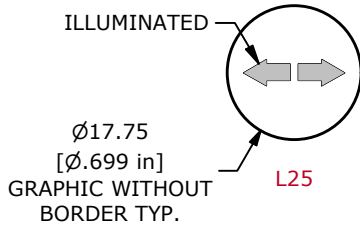
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GRAPHIC OPTIONS (CONT.)

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



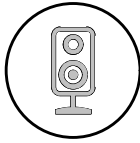
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L27



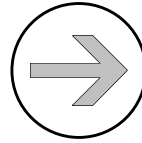
L28



L29



L30



L31



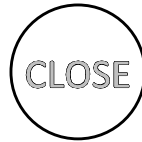
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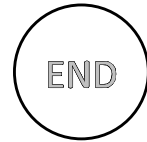
L35



L36



L37



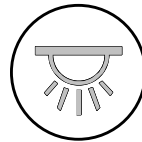
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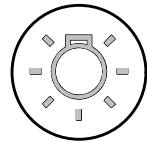
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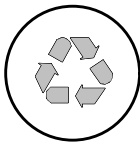
L43



L44



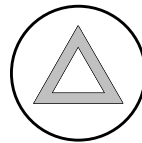
L45



L46



L47



L48

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