

A SERIES Ø 21/64" (8MM) AND AP SERIES
A SERIES - MINIATURE

Features

- Extremely compact mounting size Ø 21/64" (8mm)
- Super bright LED illumination
- Low level switching down to 1 mA AC/DC, 5V
- Dust tight (IP40) construction
- SPDT contact configuration
- Momentary action (maintained also available)
- UL Recognized, CSA Certified

Operating Voltage and External
Current Limiting Resistor*

5V DC: 150Ω, 1/2W, 6V DC: 200Ω, 1/2W,
12V DC: 510Ω, 3/4W, 24V DC: 1.1kΩ, 3/4W * Due to small unit size, an external current limiting resistor is needed.

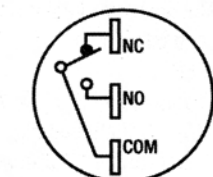
Miniature Pushbuttons (SPDT Contacts) and Pilot Lights

Shape	Pushbuttons		Pilot Lights
	Illuminated	Non-illuminated	LED
Round	AL8M-M11-*	AB8M-M1-**	AL8M-P1-*
Square	AL8Q-M11-*	AB8Q-M1-**	AL8Q-P1-*
Rectangular	AL8H-M11-*	AB8H-M1-**	AL8H-P1-*

Contact Ratings and Specifications

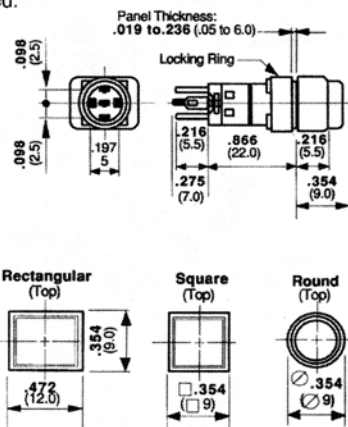
Contact Configuration: SPDT
Contact Ratings: 3A, 250V AC/DC
Contact Material: Gold-clad silver
Contact Resistance: 50 mΩ maximum (initial value)
Insulation Resistance: 100 MΩ minimum
Dielectric Strength: 2000V AC, 1 minute
Mechanical Life: 200,000 operations minimum
Degrees of Protection: IP40
Termination: Solder Tabs

Terminal Arrangements



SPDT Contact
(Single-Pole/Double Throw)

Dimensions



Color Specifications

- * Lens ** Button
- A = amber B = black
G = green G = green
R = red R = red
W = white S = blue
Y = yellow W = white
 Y = yellow

AP SERIES - MINIATURE LED PILOT LIGHTS

Features

- Long life with minimum maintenance
- Four sizes available: Ø 21/64" (8mm), Ø 13/32" (10mm), Ø 31/64" (12mm), Ø 5/8" (16mm)
- Built-in current limiting resistor
- Built-in diode protection to withstand a 200V reverse voltage
- 120V and 240V AC adaptors and 110V DC-DC converter units also available
- UL Listed and CSA Pending

Contact Ratings and Specifications

Input: Full voltage
Operating Voltage: 6V, 12V, 24V DC
Current Rating: 24V DC - 12 mA (AP8/AP1), 11 mA (AP2/AP6), 12V DC - 22 mA (AP2 series), 6V DC - 18 mA (AP8/AP1), 33 mA (AP2/AP6)
Operating Temperature: -20°C to +50°C
Insulation Resistance: 100 MΩ minimum, (500V DC megger) between live & dead parts
Reverse Withstanding Voltage: AP8/AP6/AP1: 200V, AP2: 100V
Degrees of Protection: IP65 (AP8: IP40)
Termination: Solder Tab

Pilot Lights

Style	Pilot Light		Style	Pilot Light	
	Voltage - DC	Part Number		Part Number	
Dome	6V	AP * M266-**	Flat	AP * M166-**	
	12V	- * M211-**		- * M111-**	
	24V	- * M222-**		- * M122-**	

*AP6 AC Adapter & DC-DC Converter Units

Unit	Voltage	Part Number
AC Adapter	110/120V AC	AP6-0126D
	220/240V AC	-0246D
DC-DC Converter	110V DC (90 to 140V DC)	AP6-016DD

Specifications

- * Size ** Lens
- 1 = Ø 13/32" (10mm) A = amber
2 = Ø 31/64" (12mm) G = green
6 = Ø 5/8" (16mm) R = red
8 = Ø 21/64" (8mm) W = white
 Y = yellow

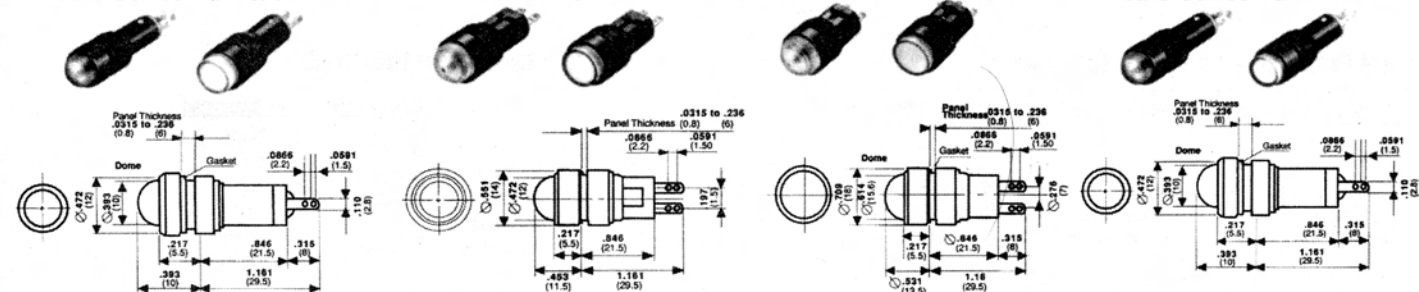
* AP6 Series - 6 volt units only

AP1 Series - Ø 13/32"

AP2 Series - Ø 31/64"

AP6 Series - Ø 5/8"

AP8 Series - Ø 21/64"



PUSHBUTTONS

Features

- Compact mounting size Ø 5/8" (16mm)
- Select from illuminated /non-illuminated pushbuttons and pilot lights
- Super bright LED
- Low level switching down to 1 mA AC/DC, 5V
- Dust tight (IP40) or oiltight/watertight (IP65) construction
- DPDT form C contacts (SPDT also available)
- Momentary switch action (maintained action also available)

Contact Ratings and Specifications

Contact Configuration: Form C, DPDT
Contact Ratings: 3A, 250V AC/DC
Contact Material: Gold-clad silver
Contact Resistance: 50 mΩ maximum (initial value)
Insulation Resistance: 100 MΩ minimum (500V DC megger)
Dielectric Strength: 2,000V AC, 1 minute
Mechanical Life: 1,000,000 minimum operations
Electrical Life: 100,000 minimum operations
Termination: Solder Tabs
Approvals: UL Recognized, CSA Certified

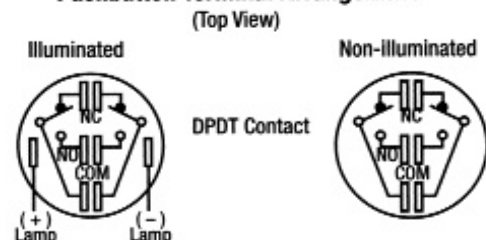
Illuminated Pushbuttons - Momentary Action, DPDT Contact, Standard and Large Size

Shape	LED			
	Voltage DC	Lens Size	Dust tight IP40	Oiltight IP65
Round  Standard Ø 0.71" (18mm) Large Ø 0.93" (23.5mm)	6V	Standard	AL6M-M22-*	AL6M-M22P-*
	12V		-M23-*	-M23P-*
	24V		-M24-*	-M24P-*
	6V	Large	AL6M-M22M-*	AL6M-M22PM-*
	12V		-M23M-*	-M23PM-*
	24V		-M24M-*	-M24PM-*
Square  Standard Ø 0.71" (18mm) Large Ø 0.93" (23.5mm)	6V	Standard	AL6Q-M22-*	AL6Q-M22P-*
	12V		-M23-*	-M23P-*
	24V		-M24-*	-M24P-*
	6V	Large	AL6Q-M22Q-*	AL6Q-M22PQ-*
	12V		-M23Q-*	-M23PQ-*
	24V		-M24Q-*	-M24PQ-*
Rectangular  Standard Ø 0.71" x 0.94" (18 x 24mm) Large Ø 0.69" x 0.93" (17.5 x 23.5mm)	6V	Standard	AL6H-M22-*	AL6H-M22P-*
	12V		-M23-*	-M23P-*
	24V		-M24-*	-M24P-*
	6V	Large	AL6Q-M22H-*	AL6Q-M22PH-*
	12V		-M23H-*	-M23PH-*
	24V		-M24H-*	-M24PH-*
LED Ratings: 6V - 30 mA, 12V - 20 mA, 24V - 10 mA				

Non-illuminated Pushbuttons - Momentary Action

Shape	Contact	Lens Size	Dust tight - IP40	Oiltight - IP65
Round	DPDT	Standard	AB6M-M2-*	AB6M-M2P-*
		Large	-M2M-*	-M2PM-*
Square	DPDT	Standard	AB6Q-M2-*	AB6Q-M2P-*
		Large	-M2Q-*	-M2PQ-*
Rectangular	DPDT	Standard	AB6H-M2-*	AB6H-M2P-*
		Large	AB6Q-M2H-*	AB6Q-M2PH-*

Pushbutton Terminal Arrangement



Special Function - Pushlock Turn Reset

Shape	Contact	Dust tight - IP40	Oiltight - IP65
 Ø 0.93" (23.5mm)	DPDT	AB6M-V2-R* (Available in red only)	AB6M-V2P-R* (Available in red only)

* Color Specifications

LED	Incandescent	Non-Illuminated
A = amber	A = amber	B = black
G = green	G = green	G = green
R = red	R = red	R = red
W = white	S = blue	S = blue
Y = yellow	W = white	W = white
		Y = yellow

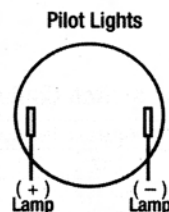
PILOT LIGHTS

A SERIES Ø 5/8" (16MM)

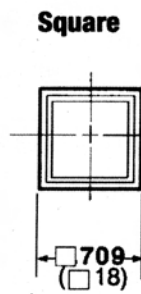
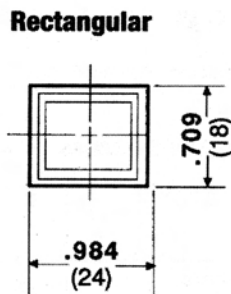
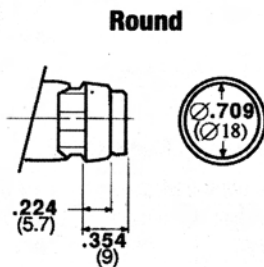
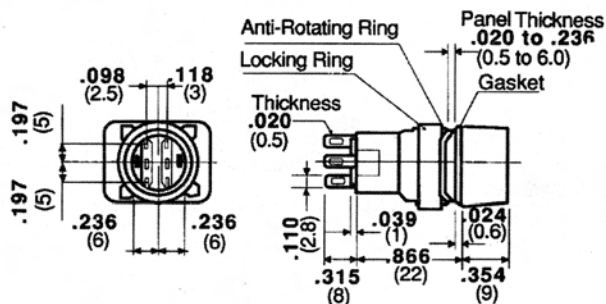
Pilot Lights - LED and Incandescent

Shape/Size Standard Only	LED		
	Voltage DC	Dust tight IP40	Oiltight IP65
Round Ø 18mm	6V	AL6M-P2-*	AL6M-P2P-*
	12V	-P3-*	-P3P-*
	24V	-P4-*	-P4P-*
Square 18mm	6V	AL6Q-P2-*	AL6Q-P2P-*
	12V	-P3-*	-P3P-*
	24V	-P4-*	-P4P-*
Rectangular 18mm x 24mm	6V	AL6H-P2-*	AL6H-P2P-*
	12V	-P3-*	-P3P-*
	24V	P4-*	-P4P-*
LED Ratings: 6V - 30 mA, 12V - 20 mA, 24V - 10 mA			

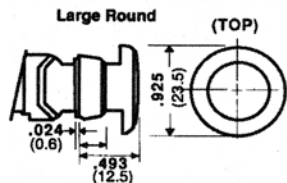
Terminal Arrangements



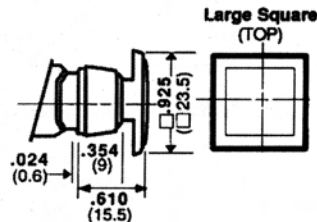
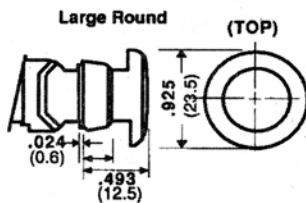
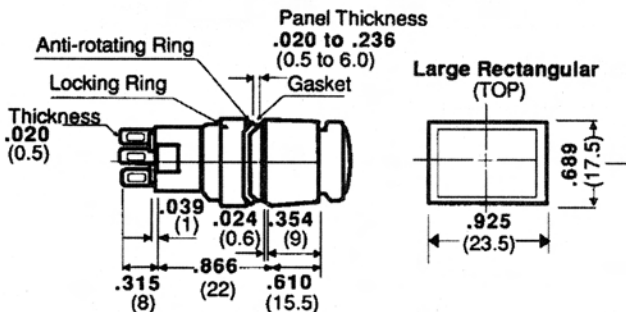
Pushbutton and Pilot Light Dimensions - Standard Size, inches (mm)



Special Function - Pushlock Turn Reset



Pushbutton Dimensions - Large Size, inches (mm)



A SERIES Ø 5/8" (16mm)

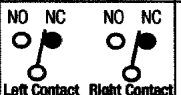
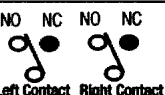
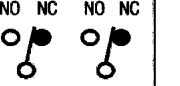
Features

- Compact mounting size Ø 5/8" (16mm)
- Knob and keylock type operators available in 2- and 3-position
- Spring return option also available
- Low level switching down to 1 mA AC/DC, 5V
- Dust tight (IP40) or oiltight/watertight (IP65) construction
- DPDT contacts (SPDT also available)

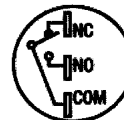
Contact Ratings and Specifications

Contact Configuration: SPDT, DPDT
Contact Ratings: 3A, 250V AC/DC
Contact Material: Gold-clad silver
Contact Resistance: 50 mΩ maximum (initial value)
Insulation Resistance: 100 MΩ minimum (500V DC megger)
Dielectric Strength: 2,000V AC, 1 minute
Mechanical Life: 250,000 minimum operations
Electrical Life: 100,000 minimum operations
Approvals: UL Recognized, CSA Certified

Selector and Keylock Switch Contact Operation

Position	Type	Operator Position & Contact Operation (Top View)		
		Left	Center	Right
90° 2-Position 	SPDT		-	
	DPDT		-	
45° 3-Position 	DPDT			

Terminal Arrangements

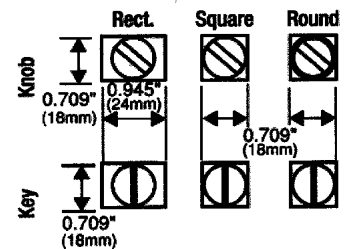


SPDT Contact

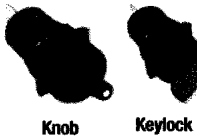
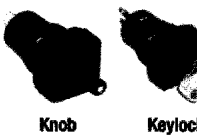
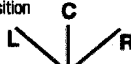
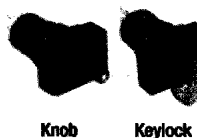
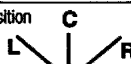


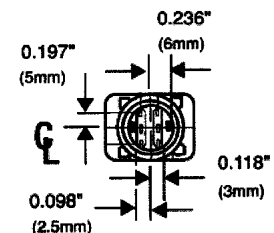
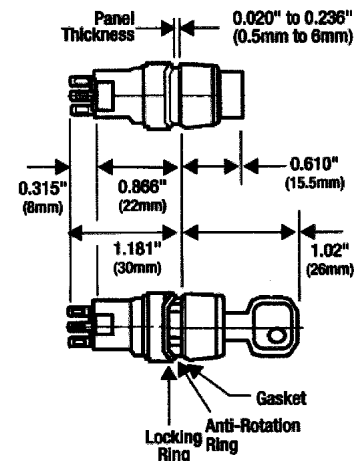
DPDT Contact

Selector Switches Ø 5/8" (16mm)



Selector Switches and Keylock Switches (2- & 3-Position), Maintained

Shape	Position	Type	Selector Switches		Keylock Switches	
			Dust tight IP40	Oiltight IP65	Dust tight IP40	Oiltight IP65
Round 	90° 2-Position 	SPDT	AS6M-2Y1	AS6M-2Y1P	AS6M-2K1*	AS6M-2K1P*
		DPDT	-2Y2	-2Y2P	-2K2*	-2K2P*
Square 	45° 3-Position 	DPDT	AS6M-3Y2	AS6M-3Y2P	AS6M-3K2*	AS6M-3K2P*
Rectangular 	90° 2-Position 	SPDT	AS6H-2Y1	AS6H-2Y1P	AS6H-2K1*	AS6H-2K1P*
		DPDT	-2Y2	-2Y2P	-2K2*	-2K2P*
	45° 3-Position 	DPDT	AS6H-3Y2	AS6H-3Y2P	AS6H-3K2*	AS6H-3K2P*



*Key Removal Specifications

Code	Remove Key	Code	Remove Key
A	Remove key in all positions	C	Remove key right, retain left
B	Remove key left, retain right	D	Remove key center, retain left/right

LW SERIES

Features

- Ø 7/8" (22.5mm) mounting holes
- High density units can be mounted on 25mm centers
- Choose from silver (5 amp) or gold (low level) contacts
- Quick release removable contacts
- Ergonomically designed with low actuation force
- Choice of solder, PCB or screw terminal blocks
- Tamper-proof construction
- UL, CSA and IEC Certified, CE marked



Specifications

Operating Temperature	-25 to +60°C (without freezing) LED illuminated type: -25 to +50°C
Storage Temperature	-40 to +80°C
Operating Humidity	45 to 85% RH
Contact Resistance	50mΩ maximum (initial value)
Insulation Resistance	100MΩ minimum (500V DC megger)
Dielectric Strength	Switch Unit
	Between live part and ground: 2,500V AC, 1 minute
	Between terminals of different poles: 2,500V AC, 1 minute
Illumination Unit	Between terminals of the same pole: 1,000V AC, 1 minute
	Between live part and ground: 2,500V AC, 1 minute
Vibration Resistance	Operating extremes: 5 to 55Hz, Amplitude 1.0mm p-p
Shock Resistance	Damage limits: 1,000 m/sec ² (Approx. 100G)
	Operating extremes: 100 m/sec ² (Approx. 10G)
Mechanical Life (minimum operations)	Momentary: 1,000,000 Alternate: 500,000 Selector: 250,000 Illuminated Selector: 250,000
Electrical Life (minimum operations)	Momentary: 100,000 (at 1,800 operations/hour) Alternate: 100,000 (at 900 operations/hour) Selector: 100,000 (at 900 operations/hour)
Degree of Protection	IP65 (IEC Pub529)
Terminal Style	Solder/tab terminal (#110) PC board terminal Screw terminal

LW Ø 7/8" (22MM) SERIES

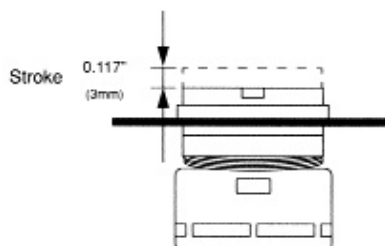
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Light Touch Reduces Strain

Light touch snap-switching mechanism reduces operator strain. Requires only a 0.117" (3.0mm) stroke and approximately 0.062" (1.6mm) inversion of contact. All LW series pushbuttons feature a low profile bezel with a height of 9mm.



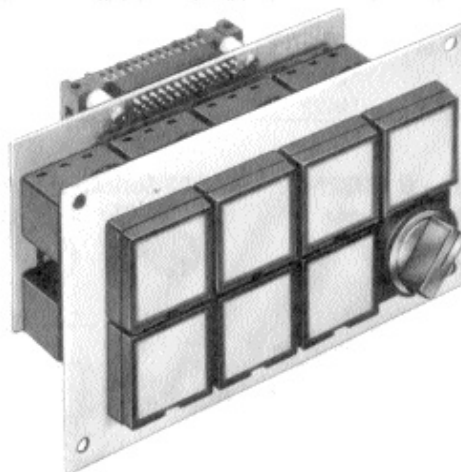
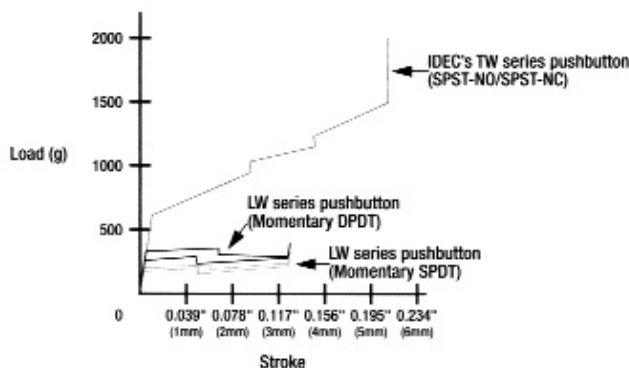
Gold & Silver Contacts

LW series feature both gold-clad cross-bar and silver contacts. Compatible with programmable logic controllers and other electronic components. Contact configuration available in SPDT, DPDT, or 3PDT.

PC Board Mounts

PC Mounts can be directly soldered to a PC board and removed from the operator. Easy to install, wire, maintain and saves panel space. No need for special mounting adapters or special preparation of the operation panel.

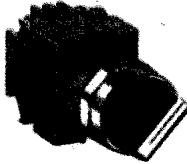
Operating-force Snap Switching Mechanism



TW Ø 7/8" AND TWTD Ø 1-13/64" SERIES

Contact Ratings and Specifications (Selector Switches and Pushbuttons)

Contact Resistance: 50 mΩ maximum (initial value)
Insulation Resistance: 100 MΩ minimum, between live/dead parts
Dielectric Strength: 2500V AC 1 minute, between live/dead parts
Mechanical Life (minimum): Illuminated and Non-illuminated
Selector Switches- 500,000 operations
Electrical Life (minimum): 500,000 operations
Operating Frequency: 30 operations/minute
Duty Rate: 40%
Rated Operating Current (Resistive Loads):
 120V AC/10A, 12V DC/4A
 240V AC/6A, 24V DC/4A
Rated Thermal Current: 10A
Minimum Switching Capacity: 5 mA @ 3V AC/DC
Rated Insulation Voltage: 600V AC/DC
UL Rating: A600 (Heavy Duty Pilot)
Approvals: UL Listed, CSA Certified, DEMKO and CE marked



NEMA Ratings

Illuminated and Non-illuminated Pushbuttons, Pilot Lights, Illuminated and Non-illuminated Selector Switches	1, 2, 3, 3R, 4, 4X, 5, 12, 13
Keylock Switches	1, 2, 3R, 5, 13

Contact Arrangements and Operator Positions

The following contact arrangements and operator positions are universal for all TW and TWTD selector switches which are maintained and/or illuminated.

		Left	Center	Right
2-Position 1NO-1NC		0 X	-- --	X 0
2-Position 2NO-2NC		0 X 0 X	-- -- -- --	X 0 X 0
3-Position 2NO		X 0	0 0	0 X
3-Position 2NO-2NC		X 0 0 X	0 0 X X	0 X X 0

Key: X = Closed 0 = Open XX = Overlapping contacts

TW Series Illuminated Selector Switches - 7/8" (22mm)

Positions	Contacts	Type	LED	Incandescent
2	1NO-1NC	Transformer Full Voltage	ASLW2 ① 611D-② ASLW29911D-②-③	ASLW2 ① 611-② ASLW29911-②-③
	2NO-2NC	Transformer Full Voltage	ASLW2 ① 622D-② ASLW29922D-②-③	ASLW2 ① 622-② ASLW29922D-②-③
3	2NO	Transformer Full Voltage	ASLW3 ① 620D-② ASLW39920D-②-③	ASLW3 ① 620-② ASLW39920-②-③
	2NO-2NC	Transformer Full Voltage	ASLW3 ① 622D-② ASLW39922D-②-③	ASLW3 ① 622-② ASLW39922-②-③

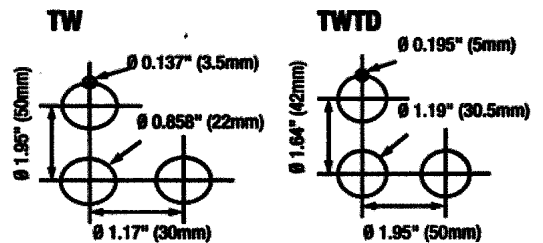
TWTD Series Illuminated Selector Switches - 1-13/64" (30mm)

Positions	Contacts	Type	LED	Incandescent
2	1NO-1NC	Transformer Full Voltage	ASLD2 ① 611DN-② ASLD29911DN-②-③	ASLD2 ① 611N-② ASLD29911N-②-③
	2NO-2NC	Transformer Full Voltage	ASLD2 ① 622DN-② ASLD29922DN-②-③	ASLD2 ① 622N-② ASLD29922DN-②-③
3	2NO	Transformer Full Voltage	ASLD3 ① 620DN-② ASLD39920DN-②-③	ASLD3 ① 620N-② ASLD39920N-②-③
	2NO-2NC	Transformer Full Voltage	ASLD3 ① 622DN-② ASLD39922DN-②-③	ASLD3 ① 622N-② ASLD39922N-②-③

TW and TWTD Series Knob Operators

Positions	Contacts	TW (7/8")	TWTD (1-13/64")
2	1NO-1NC	ASW211	ASD211N
	2NO-2NC	-222	-222N
3	2NO	-320	-320N
	2NO-2NC	-322	-322N

Panel Cut Out Dimensions



① Voltage

LED	Incandescent
12 - 120V AC	12 - 120V AC
24 - 240V AC	24 - 240V AC
Note: 6V LED used with AC Adaptor.	48 - 480V AC
Note: 6V Lamp used with transformer.	

② Color

LED	Incandescent
A = amber	A = amber
G = green	G = green
R = red	R = red
W = white	S = blue
Y = yellow	W = white

③ Lamp Voltage

LED	Incandescent
6 - 6V DC	6 - 6V AC/DC
12 - 12V AC/DC	12 - 12V AC/DC
24 - 24V AC/DC	24 - 24V AC/DC
120 - 120V AC	

ASSEMBLED CONTROL UNITS - NEMA 4, 4X, 13

Non-Illuminated, Momentary Action, Special Function

TW	Style	TWTD	Contact	TW 7/8"	TWTD 1" 13/64"
	Flush		1NO	ABW110	ABD110N
			1NC	101	-101N
			1NO-1NC	-111	-111N
			2NO	-120	-120N
			2NC	-102	-102N
	Extended		1NO	ABW210-①	ABD210N-①
			1NC	-201-①	-201N-①
			1NO-1NC	-211-①	-211N-①
			2NO	220 ①	-220N-①
			2NC	-202-①	-202N-①
	Mushroom		1NO	ABW410-①	ABD310N ①
			1NC	401 ①	-401N-①
			1NO-1NC	-411-①	-311N-①
			2NO	-420-①	-420N-①
			2NC	-402-①	-402N-①
	Pushlock Turn Reset		1NO	AVW410-R	AVD310N-R
			1NC	-401-R	-401N-R
			1NO-1NC	-411-R	-311N-R
			2NO	-420 R	-420N R
			2NC	-402-R	-402N-R
	Push-Pull		1NO	AYW410 ①	AYD310N-①
			1NC	401 ①	-401N-①
			1NO-1NC	-411-①	-311N-①
			2NO	-420-①	-420N-①
			2NC	-402-①	-402N-①

Pushbuttons also available in maintained action.

Pushlock turn reset button available in red only.

① Button Color Code:

B = black, G = green, R = red, S = blue, W = white, Y = yellow

PILOT LIGHTS

Pilot Lights - LED and Incandescent

Style	Series	LED			Incandescent		
		Style	AC Voltage	Part Number	Style	AC Voltage	Part Number
	TW	AC Adaptor	120V 240V	APW2126D-① -246D-①	Transformer	120V 240V 480V	APW2126-① -2246-① -2486-①
		Full Voltage	-	APW299D ① ②	Full Voltage	-	APW299-①-②
	TWTD	AC Adaptor	120V 240V	APD1126DN-① -246DN ①	Transformer	120V 240V 480V	APD1126N-① -246N ① -486N-①
		Full Voltage	-	APD199DN-①-②	Full Voltage	-	APD199N ① ②

① Lens Color Code: A = amber, G = green, R = red, S = blue, W = white, Y = yellow

② Lamp Voltage Code: 6-6V DC, 12-12V AC/DC, 24-24V AC/DC, 120-120V AC (120V for TWTD full voltage type only)

TW Ø 7/8" AND TWTD Ø 1-13/64" SERIES

Illuminated, LED and Incandescent, 1NO-1NC

Style	Series	LED	Incandescent
	TW	ALW2①611D-②	ALW2①611-②
	TWTD	ALD2①611DN-②	ALD2①611N-②
	TW	ALW29911D-②-③	ALW29911-②-③
	TWTD	ALD29911DN-②-③	ALD29911N-②-③
	TW	ALW4①611D-②	ALW4①611-②
	TWTD	ALD3①611DN-②	ALD3①611N-②
	TW	ALW49911D-②-③	ALW49911-②-③
	TWTD	ALD39911DN-②-③	ALD39911N-②-③
	TW	AYLW4①611D-②	AYLW4①611-②
	TWTD	AYLD3①611DN-②	AYLD3①611N-②
	TW	ALYW49911D-②-③	ALYW49911-②-③
	TWTD	ALYD39911DN-②-③	ALYD39911N-②-③

① Voltage Code: 12-120V AC, 24-240V AC, 48-480V AC (incandescent only)

② Lens Color Code: A = amber, R = red, G = green, S = blue (incandescent only),
W = white, Y = yellow (illuminated only)

③ Lamp Voltage Code: 6-6V DC, 12-12V AC/DC, 24-24V AC/DC,
120-120V AC (120V for TWTD full voltage type only)

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ASSEMBLED OILTIGHT CAM SWITCHES - CS SERIES Ø 1-13/64" (30MM) NEMA 4 AND 13

Features

- Wide variety of heavy-duty oiltight cam switches
- Standard Ø 1-13/64" (30mm) mounting hole
- Operators available up to 12 positions
- Switches made with a double circuit contact block
- Contact blocks rated 600V, 10A
- Ideal for ammeter/voltmeter applications
- Built to order
- UL Listed, CSA Certified

Contact Ratings and Specifications

Rated Thermal Current		10A					
AC	Rated Voltage		120V	240V	480V	600V	
	Rated Current		5A	3A	2A	1A	
	Breaking Current (A)		Rated amperage x 10				
DC	Resistive	Rated Voltage		24V	110V	220V	440V
		Rated Current		8A	3A	1A	0.4A
		Breaking Current (A)		Rated amperage x 1.1			
	Inductive	Rated Voltage		24V	110V	220V	440V
		Rated Current		5A	1.2A	0.45A	0.2A
		Breaking Current (A)		Rated amperage x 1.1			
Minimum Load (reference value)			50mA				

Heavy-duty CAM Switches

Series	Operator			Series	Operator		
	Cam Angle	Position	Part #		Cam Angle	Position	Part #
 ACSNO	30°	Up to 12	ACSNO-003	 UCSQO	30°	Up to 12	UCSQO-003
	45°	Up to 8	-004		45°	Up to 8	-004
	60°	Up to 6	-006		60°	Up to 6	-006
	90°	Up to 4	-009		90°	Up to 4	-009
	45°	2 or 3	-SR*		45°	2 or 3	-SR*
 ACS NK	30°	Up to 12	ACS NK-003	 UCSQM	45°	Only 3	UCSQM-SR*
	45°	Up to 8	-004				
	60°	Up to 6	-006				
	90°	Up to 4	-009				
	45°	2 or 3	-SR*				

* A maximum of eight circuits is recommended for the most reliable function of spring returns (SR).

Contact Arrangement CAM Table

Contact Blocks	Terminal Number	Position											
		1	2	3	4	5	6	7	8	9	10	11	12
1 Block	1 - 2												
	3 - 4												
2 Blocks	5 - 6												
	7 - 8												
3 Blocks	9 - 10												
	11 - 12												
4 Blocks	13 - 14												
	15 - 16												
5 Blocks	17 - 18												
	19 - 20												
6 Blocks	21 - 22												
	23 - 24												
7 Blocks	25 - 26												
	27 - 28												
8 Blocks	29 - 30												
	31 - 32												
9 Blocks	33 - 34												
	35 - 36												
10 Blocks	37 - 38												
	39 - 40												

Use the following contact symbols to complete this CAM table:

- X = Closed Contacts
O = Open Contacts
XX = Overlapping contacts

All contacts break before make unless specified as overlapping contacts symbol (XX).
Up to 20 contacts (10 stacks) can be mounted except UCSQM style (6 contacts).

Operating Positions

