## A6 Series — Miniature Switches and Pilot Devices: 16mm

#### **Key features:**

- 16mm (5/8") mounting hole
- LED illumination
- Compact design saves space
- Momentary, Maintained, Selectors, and E-Stops
- Gold-clad Silver contacts for reliable low level switching
- · Snap action contacts
- IP40 (dustproof) or IP65 (oiltight) versions











	Degree of Protection		IP40: Dustproof IP65 Watertight/Oiltight							
	Contact Configuration	l	SPDT, DPDT	SPDT, DPDT						
	Maximum Voltage		250V AC/DC							
	Thermal Current		3A							
	Minimum Applicable	Load	5V AC/DC, 1mA							
	Contact Material		Gold-clad silver							
	Terminal Style		.110" Solder/ Quick Conn	ect						
	Operating Temperatur	re	-25° to +55°C (no freezing	)						
ons	Operating Humidity		45 to 85% RH							
Specifications	Contact Resistance		50mΩ maximum (initial va	alue)						
ecifi	Insulation Resistance	:	100MΩ minimum (500V DC megger)							
Sp	Vibration Resistance		10 to 55Hz, amplitude 1.5mm p-p							
	Shock Resistance		Damage limits: 500m/sec² (approx. 50G) Operating extremes: 200m/sec² (approx. 20G)							
	Electrical Life		100,000 operations minimum (at full rated load)							
	Mechanical Life		Maintained: 100,000 operations minimum  Momentary: 1,000,000 operations minimum  Selector/Keylock: 250,000 operations minimum							
	Dielectric Strength		Switch Unit: 2,000V AC, 1 min. between live/dead part and terminals of different poles; 1,000V AC, 1 minute between terminals of the same pole; 1,500V AC, 1 minute between contact and lamp terminals.  Illumination Unit: 2,000V AC, 1 min. between live part/ground							
	Soldering Temperatur	·e	20W/5 seconds or 260°C/	/3 se	econds					
60	Operating Voltage		24V		120V		240V			
ting	4.0 (50 (0011.)	Resistive	_		1.0A		0.5A			
t Ra	AC (50/60Hz)	Inductive	_		0.7A		0.5A			
Contact Ratings	20	Resistive	1.0A		0.2A		_			
త	DC	Inductive	0.7A		0.1A		_			
			5V DC ±5%	6V	AC/DC (±10%)	12V AC	C/DC (±10%)	24V AC/DC (±10%)		
Rated Voltage/Current		AC 9mA		C: A, R, W, Y: 8mA G, S: 7mA C: A, R, W, Y: 6mA G, S: 5mA			AC: 9mA DC: 8mA			



- 1. AC Inductive Load, PF = 0.6 0.7; DC Inductive Load, L/R = 7ms.
- 2. LED lamp contains a built-in current limiting resistor and a protection diode.
- 3. LED's don't "burn out." Luminance is reduced to 50% of initial intensity after being lit for 50,000 hours continuously.



#### **AB6 Non-Illuminated Pushbuttons (Assembled)**

#### **Non-Illuminated Pushbuttons**

				Part Number			
	Style	Contact	Mome	entary	Maintained	l (Latching)	
			Dustproof (IP40)	Oiltight (IP65)	Dustproof (IP40)	Oiltight (IP65)	
	Round 18mm	SPDT DPDT	AB6M-M1-① AB6M-M2-①	AB6M-M1P-① AB6M-M2P-①	AB6M-A1-① AB6M-A2-①	AB6M-A1P-① AB6M-A2P-①	
Standard Button	Square 18mm	SPDT DPDT	AB6Q-M1-① AB6Q-M2-①	AB6Q-M1P-① AB6Q-M2P-①	AB6Q-A1-① AB6Q-A2-①	AB6Q-A1P-① AB6Q-A2P-①	
	Rectangular 18mm x 24mm	SPDT DPDT	AB6H-M1-① AB6H-M2-①	AB6H-M1P-① AB6H-M2P-①	AB6H-A1-① AB6H-A2-①	AB6H-A1P-① AB6H-A2P-①	
	Round 23.5mm	SPDT DPDT	-	AB6M-M1P-M① AB6M-M2P-M①	-	AB6M-A1P-M① AB6M-A2P-M①	
Oversize Button	Square 23.5mm	SPDT DPDT	-	AB6Q-M1P-Q⊕ AB6Q-M2P-Q⊕	-	AB6Q-A1P-Q@ AB6Q-A2P-Q@	
	Rectangular 17.5 X 23.5mm	SPDT DPDT	-	AB60-M1P-H① AB60-M2P-H①	-	AB60-A1P-H① AB60-A2P-H①	

#### **®Button Color Code**

Color	Code
Black	В
Green	G
Red	R
Blue	S
White	W
Yellow	Υ



- In place of ①, specify Button Color Code from the table at right.
   To order as sub-assembled, see page 459.
- 3. For accessories, see page 466.
- 4. For dimensions, see page 468.

#### **AB6-V Pushlock Turn Reset**

Chana	Oneretien	Contact	Part Nun	nber	Remarks	
Shape	Operation	Guillact	Dustproof (IP40)	Oiltight (IP65)	hemarks	
23.5mm Round Mushroom	Pushlock Turn Reset	SPDT DPDT	AB6M-V1-R AB6M-V2-R	AB6M-V1P-R AB6M-V2P-R	Button available in red only.     Replacement button: order AB6M-V-R	

#### **Buzzer**

Style	Shape	Voltage	Part Number
189	D 1/40	12V DC	UZ6-11
(9)	Round (18mm)	24V DC	UZ6-12

#### **Buzzer Ratings**

2 khz ± 500 HZ
80db @ 0.1m (at rated voltage)
6V AC/DC or 12 - 24V AC/DC ± 10%
55 to 600 cycles per minute
DC: 7mA, AC: 20mA
1000 hrs. minimum
60V AC/DC
-20 to 55 C (no freezing), 45 to 85% rh

#### **AB6 Non-Illuminated Pushbuttons (Sub-Assembled)**



#### **Operators**

Style	Contact	Operator	Part Number			
Style			Round	Square	Rectangular	
Non-Illuminated Pushbuttons	CDDT	Momentary	AB6M-M100	AB6Q-M100	AB6H-M100	
1871 - N. 18	SPDT	Maintained	AB6M-A100	AB6Q-A100	AB6H-A100	
	DPDT	Momentary	AB6M-M200	AB6Q-M200	AB6H-M200	
	וטרטו	Maintained	AB6M-A200	AB6Q-A200	AB6H-A200	



Oversize rectangular button uses square operator.

#### **Buttons**

Dullons					
	Part Number				
Description	Button				
	Dustproof (IP40)	Oiltight (IP65)			
Round	AB6M-BK1-①	AB6M-BK2-①			
Square	AB6Q-BK1-①	AB6Q-BK2-①			
Rectangular	AB6H-BK1-⊕	AB6H-BK2-①			
Round Oversize	-	AB6M-BK2-M®			
Square Oversize	-	AB6Q-BK2-Q①			
Rectangular Oversize	-	AB6Q-BK2-H⊕			

# In place of ①, specify Button Color Code from table. Buttons which are rated IP65 include a waterproof rubber gasket. For accessories, see page 466.

#### **1) Button Color Code**

Color	Code	
Black	В	
Green	G	
Red	R	
Blue	S	
White	W	
Yellow	Υ	

USA: 800-262-IDEC

Canada: 888-317-IDEC



#### **LED Illuminated Pushbuttons**

				Part N	umbers		
Description	Style	Contact	Mom	entary	Maintained (Latching)		
			Dustproof (IP40)	Oiltight (IP65)	Dustproof (IP40)	Oiltight (IP65)	
	Round (18mm lens)	SPDT DPDT	AL6M-M1 ③ - ② AL6M-M2 ③ - ②	AL6M-M1③P-② AL6M-M2③P-②	AL6M-A1③-② AL6M-A2③-②	AL6M-A1 ③ P- ② AL6M-A2 ③ P- ②	
Standard Lens	Square (18mm lens)	SPDT DPDT	AL6Q-M1③-② AL6Q-M2③-②	AL6Q-M1@P-@ AL6Q-M2@P-@	AL6Q-A1③-② AL6Q-A2③-②	AL6Q-A13P-2 AL6Q-A23P-2	
	Rectangular (18mm x 24mm lens)	SPDT DPDT	AL6H-M1③-② AL6H-M2③-②	AL6H-M1 ③P-② AL6H-M2 ③P-②	AL6H-A1③-② AL6H-A2③-②	AL6H-A1③P-② AL6H-A2③P-②	
	Round (24mm lens)	SPDT DPDT	-	AL6M-M1③P-M② AL6M-M2③P-M②	-	AL6M-A1 ③P-M② AL6M-A2 ③P-M②	
Oversize Lens	Square (24mm lens)	SPDT DPDT	-	AL6Q-M1 ③P-Q ② AL6Q-M2 ③P-Q ②	-	AL6Q-A1@P-Q@ AL6Q-A2@P-Q@	
	Rectangular (18mm x 24mm lens)	SPDT DPDT	-	AL6Q-M1 ③P-H② AL6Q-M2 ③P-H②	-	AL6Q-A13P-H2 AL6Q-A23P-H2	

**AL6 Illuminated Pushbuttons (Assembled)** 



- 1. In place of ②, specify Lens/LED Color Code from table below.
- 2. In place of ③, specify Voltage Code from table below.
- 3. Lamps also available in 5V DC, 6V AC/DC or 12 V AC/DC, change "4" using voltage/lamp codes (ie AL6M-M13-@ uses 12V AC/DC LED).
- 4. LED lamp is included in unit and contains a current-limiting resistor and a protection diode. (External resistor not required.)
- 5. To order as sub-assembled, see page 461. 6. For accessories, see page 466.
- 7. For dimensions, see page 468.
- 8. Light independent of switch position.

#### **2 Lens/LED Color Code**

#### Color Code Amber G Green R Red Blue S Warm White W Cool White JW Yellow Υ

#### **3Voltage Code**

Voltage	Code
5V DC	1
6V AC/DC	2
12V AC/DC	3
24V AC/DC	4

#### **AL6 Illuminated Pushbuttons (Sub-Assembled)**



#### **Operators**

Style	Contact Op	Operator	Part Number			
Style			Round	Square	Rectangular	
AL6 Illuminated Pushbuttons	SPDT	Momentary	AL6M-M100	AL6Q-M100	AL6H-M100	
		Maintained	AL6M-A100	AL6Q-A100	AL6H-A100	
-	DPDT	Momentary	AL6M-M200	AL6Q-M200	AL6H-M200	
-		Maintained	AL6M-A200	AL6Q-A200	AL6H-A200	



Oversize rectangular button uses square operator.

#### Lenses

Unit Part Number				
Degree of Protection	Dustproof (IP40)	Oiltight (IP65)		
Size	Standard	Standard	Oversize	
Round	AL6M-LK1-@	AL6M-LK2-@	AL6M-LK2-M ②	
Square	AL60-LK1-@	AL6Q-LK2-@	AL60-LK2-0 @	
Rectangular	AL6H-LK1-@	AL6H-LK2-@	AL60-LK2-H @	

- In place of ②, specify Lens Color Code from table below.
   Lenses which are rated IP65 include a waterproof rubber gasket.
   For accessories, see page 466.

#### **2 Lens/LED Color Code**

Color	Code
Amber	Α
Green	G
Red	R
Blue	S
Warm White	W
Cool White	JW
Yellow	Υ

#### **LED Lamps**

Appearance	Rated Voltage	Part Number	
	5V DC	LATD-5 @	
	6V AC/DC	LATD-6 @	
	12V AC/DC	LATD-1 @	
	24V AC/DC	LATD-2 @	
A 4 1 1 (@) ("IFDO I 0 I ( I I I I I I I I I I I I I I I I			
In place of ②, specify LED Color Code from table at left.			

Canada: 888-317-IDEC



#### **AL6 Pilot Lights (Assembled)**

#### **LED Pilot Lights**

Part Number				
Description				
	Dustproof (IP40)	Oiltight (IP65)		
Round (18mm Lens)				
	AL6M-P③-②	AL6M-P@P-@		
Square (18mm Lens)				
	AL6Q-P③-②	AL6Q-P③P-②		
Rectangular (18mm x 24mm Lens)				
	AL6H-P③-②	AL6H-P③P-②		



- 1. In place of ②, specify Lens Color Code from table below.
- 2. In place of ③, specify Voltage Code from table below.
- 3. LEDs also available in 5V DC, 6V AC/DC or 12 V AC/DC, change "4" using voltage codes (ie AL6M-P3-@ uses 12V AC/DC LED).
- 4. LED is included and contains built-in current limiting resistor and reverse polarity protection diode. (no external resistor required)
- 5. To order sub-assembled, see page 463.

- For accessories, see page 466.
   For dimensions, see page 468.
   For one piece pilot lights and/or dome lens pilot lights, see AP series miniature pilot lights.

#### **2 Lens/LED Color Code**

Color	Code
Amber	А
Green	G
Red	R
Blue	S
Warm White	W
Cool White	JW
Yellow	Υ

#### **3Voltage Code**

_	
Voltage	Code
5V DC	1
6V AC/DC	2
12V AC/DC	3
24V AC/DC	4

#### **AL6 Pilot Lights (Sub-Assembled)**



#### **Operators**

Style	Part Number			
Style	Round	Square	Rectangular	
AL6 Pilot Lights				
	AL6M-P00	AL6Q-P00	AL6H-P00	

#### Lenses

Dograp of Protection	Part Number		
Degree of Protection	Dustproof IP40	Oiltight IP65	
Round	AL6M-LK1-@	AL6M-LK3-@	
Square	AL6Q-LK1-@	AL60-LK3-@	
Rectangular	AL6H-LK1-@	AL6H-LK3-@	

- - 1. In place of ②, specify Lens Color Code from table below.
  - Lenses which are rated IP65 in
     For accessories, see page 466. Lenses which are rated IP65 include a waterproof rubber gasket.

#### **2 Lens/LED Color Code**

Color	Code
Amber	А
Green	G
Red	R
Blue	S
Warm White	W
Cool White	JW
Yellow	Υ

#### **LED Lamps**

Appearance	Rated Voltage	Part Number	
	5V DC	LATD-5 @	
	6V AC/DC	LATD-6 @	
	12V AC/DC	LATD-1 @	
	24V AC/DC	LATD-2 @	
1. In place of ②, specify LED Color Code from table at left.			



## **AS6 Selector and Keylock Switches**

#### AS6 Selector Switches and Keylock Switches (2 & 3 Position)

Style		Function		Knob	Key
Round Selector	on 90°	Maintained	L\_/R	AS6M-2Y2P	AS6M-2KT2P®
	2-Position 90	Spring Return Right	L\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AS6M-21Y2P	AS6M-21KT2PB
	on 45°	Maintained	L C R	AS6M-3Y2P	AS6M-3KT2P®
Round Keylock		Spring Return Right →Center	L C R	AS6M-31Y2P	AS6M-31KT2P⊕
	3-Position 45°	Spring Return Left →Center	L C R	AS6M-32Y2P	AS6M-32KT2P®
6.5		2-Way Return→Center	$L \xrightarrow{C}_R$	AS6M-33Y2P	AS6M-33KT2PD
Square Selector	on 90°	Maintained	L\\/R	AS6Q-2Y2P	AS6Q-2KT2P®
	2-Position 90°	Spring Return to Right	L\\R	AS6Q-21Y2P	AS6Q-21KT2PB
		Maintained	L C R	AS6Q-3Y2P	AS6Q-3KT2P®
Square Keylock	3-Position 45°	Spring Return Right→Center	L C R	AS6Q-31Y2P	AS6Q-31KT2P®
		Spring Return Left →Center	L C R	AS6Q-32Y2P	AS6Q-32KT2P®
(C)		2-Way Return→Center	$L \stackrel{C}{\longleftrightarrow}_R$	AS6Q-33Y2P	AS6Q-33KT2PD
Rectangular Selector	on 90°	Maintained	L\\/R	AS6H-2Y2P	AS6H-2KT2P®
	2-Position 90°	Spring Return Right	L\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AS6H-21Y2P	AS6H-21KT2PB
		Maintained	L C R	AS6H-3Y2P	AS6H-3KT2P®
Rectangular Keylock	3-Position 45°	Spring Return Right →Center	L C R	AS6H-31Y2P	AS6H-31KT2P®
		Spring Return Left→Center	L C R	AS6H-32Y2P	AS6H-32KT2P®
		2-Way Return→Center	L C R	AS6H-33Y2P	AS6H-33KT2PD

#### 1. All models are IP65 and DPDT.

- 2. In place of  ${\mathfrak D}$ , specify Key Retention Code. See table on right.
- 3. Available as assembled units only.
- 4. For accessories, see page 466.
- 5. For dimensions, see page 468.

#### **Contact Operations**

(for all selectors)

Contents	Operator Position & Contact Operation	
2 pag (DDDT)	Left	Left Right Contact Contact NO NC NO NC
2-pos. (DPDT)	Right	Left Right Contact Contact NO NC NO NC
3-pos. (DPDT)	Left	Left Right Contact NO NC NO NC C C C C
	Center	Left Right Contact NO NC NO NC C C C C
	Right	Left Right Contact Contact NO NC NO NC

#### **①Key Retention Codes**

witey iletention codes		
Code	Description	
А	Key not retained in any position (removable in all positions)	
В	Key retained in right position only	
С	Key retained in left position only	
D	Key retained in left and right (3 position only)	
Е	Key retained in center only (3 position only)	
G	Key retained right and center (3 position only)	
Н	Key retained left and center (3 position only)	
A K	ay cannot be removed in a spring return	



# **Switches & Pilot Lights**

#### **Switch Engraving Order Form – A6 Series**

Copy this order form and use it to specify Letter Height, Maximum Number of Lines and Text to be engraved.

To insure engraving accuracy, fax it to your IDEC representative or Distributor.

Your Company:	Telephone:	
Name:	Fax:	
Address:	Email:	
P0:	Part Number to be Engraved:	

Please check one of the boxes below to indicate your choice of engraving options:

Rectangular Switch

# of Lines	Letter Height	Max. Characters Per Line
1	5/32	6
2	5/32	6
2	1/8	6
3	1/8	6
4		N/A

**Square** Switch

	# of Lines	Letter Height	Max. Characters Per Line
	1	5/32	5
	2	5/32	5
		1/8	6
	3	1/8	6
	4	N/A	



# of Lines	Letter Height	Max. Characters Per Line
1	5/32	3
I	1/8	3
2	5/32	Custom*
3	1/8	Custom*
4	3/32	Custom*

<sup>\*</sup>Engraving is possible, but character size will be smaller than standard sizes.



- 1. Engraving is done on the button itself for non-Illuminated pushbuttons and on marking plate for illuminated pushbuttons and pilot lights.
- 2. Please enter text exactly how you want it engraved, take care to emphasize capital or small letters.

Enter text t	to be engraved:	
Line 1:		
Line 2:		
Line 3:		
Line 4:		

#### **Sample Letter Sizes**

**OPEN** 1/8 Letters:

5/32 Letters: OPEN

r IDEC Internal Use Only:	
Nork Order #:	



#### **Accessories**

Appearance		Description	Used With	Part Number
			Ø 5/8" (16mm) units	MT-001
Locking Ring		Made of metal. Used for tightening plastic locking ring during	Ø 31/64" (12mm) AP2M units	MT-002
Wrench		installation. Tightening torque should not exceed 3kgf-cm	Ø 13/32" (10mm) AP1M units	MT-003
Lens Removal Tool		Made of metal. Used for removing lens or button from the housing	All pushbuttons and pilot lights	MT-101
Lamp Holder Tool	na.	Made of rubber. Used for removing and replacing LED lamps in illuminated units	All illuminated pushbuttons and pilot lights	OR-77
	<b>A</b>	Prevents inadvertent switch operation. IP40 dust-tight.	Round/Square	AL-K6
Switch Guard		90 degrees opening maintained	Rectangular	AL-KH6
Switch duald		Prevents inadvertent switch operation. IP65 oiltight	Round/Square	AL-K6SP
		180 degrees opening, spring return	Rectangular	AL-KH6SP
Terminal Cover		Made of translucent nylon. Fits over and shields the terminals	All 5/8" (16mm) units	AL-V6
			All round units	AL-D6
Dust Cause		Fits over the lens or button to provide extra protection from	All square units	AL-DQ6
Dust Cover		dust (not applicable for oversize lenses or buttons).	All rectangular units	AL-DH6
		Plug-on terminal adaptor with solder terminals		AL-C6
Adaptor Socket	Plug-on terminal adaptor with PCB terminals	All 5/8" (16mm) units	AL-C6V	
		Fills unused panel cutouts. Made of nitrile rubber. Push-in installation from front of panel. IP65 (oiltight).	Rubber	AL-B6
Mounting Hole Plug		Fills unused panel cutouts. Made of aluminum. Screw-on locking ring from inside of panel. IP65 (oiltight).	Aluminum	AL-BM6
recurring Floro Flag		Round Mounting Hole Plug		LA9Z-BS6
		Square Mounting Hole Plug	Plastic (Applicable for flush mount switches only)	LA9Z-BS7
		Rectangular Mounting Hole Plug	,,	LA9Z-BS8
			5V DC	LATD-5 @
Replacement		LED with built in current limiting resistor (with all	6V AC/DC	LATD-6 @
LED Lamps		illuminated assemblies).	12V AC/DC	LATD-1 @
			24V AC/DC	LATD-2 ②
Replacement Locking Ring	0	Fastens operators to panel (included with all operators).	All switches & pilot lights	HA9Z-LN
		Prevents rotation of switches in panel (included with all operators).	All switches & pilot lights	AL6-LP
			Round standard	AL6M-W
			Square standard	AL6Q-W
Replacement Engraving Inserts		Engraving plates to allow legends underneath translucent lenses (included with all lenses).	Rectangular standard	AL6H-W
Engraving moerts		,	Round oversize	AL6M-MW
			Square/rectangular oversize	AL6Q-QW
Replacement Keys	8	Pair of keys (#132). All key switches use same standard key.	All key selectors	AS6-SK

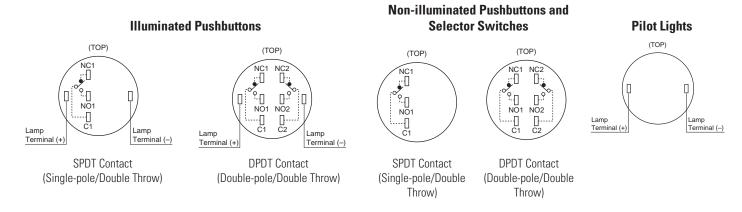


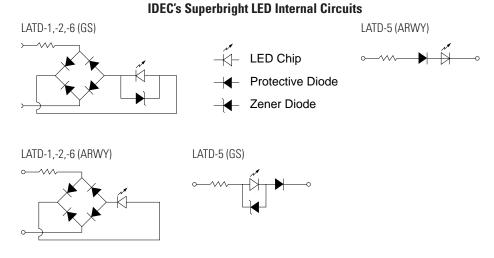
In place of ② specify color code. A=Amber, G=Green, Y=Yellow, R=Red, S=Blue, W=Warm White, JW=Cool White.
 LEDs include built-in current limiting resistor and reverse polarity protection diode.

Appearance		Description	Used With	Part Number
	6	ø24mm round, metal (aluminum color), panel cut-out ø20.2mm	Pushbuttons, pilot lights, illuminated pushbutton, selector switches, key selector switches and illuminated selector switches.	LA9Z-SM61
Flush Bezel	6	ø24mm round, plastic (black), square panel cut-out ø20.2mm	A6 Switch	LA9Z-S61B
Tiusii bezei =	4	24mm square, plastic (black), panel cut-out 20.2 x 20.2mm	6	LA9Z-S71B
	O	24 x 30mm rectangular, plastic (black), rectangular panel cut-out ø20.2 x 26.2mm	Flush Bezel	LA9Z-S81B
Switch Guard w/ Flush Bezel (spring return)		Rectangular, plastic (black)	Flush Switch	LA9Z-KS8

#### Schematics — A Series: 5/8" (16mm)

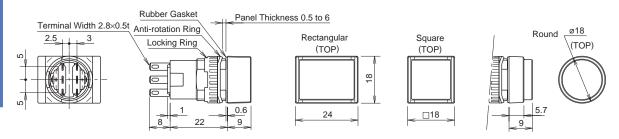
#### Terminal Arrangement (Top View)



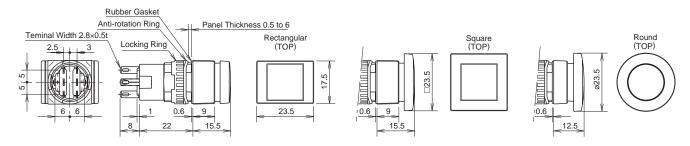


#### **Dimensions (mm)**

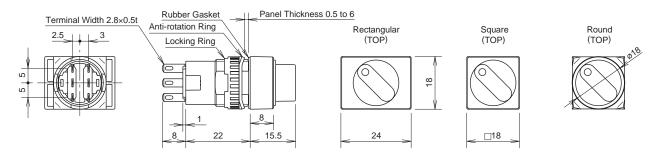
#### Pushbuttons, Ø 5/8" (16mm)



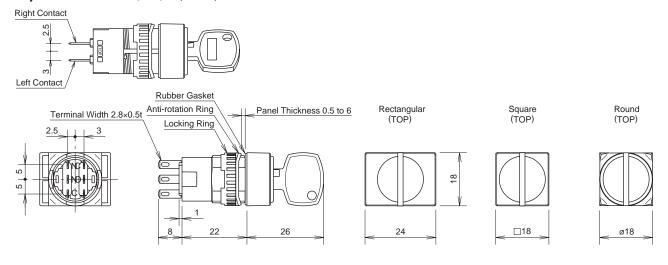
#### Oversize Lens



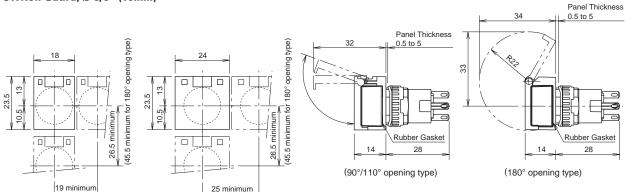
#### Selector Switches, Ø 5/8" (16mm)

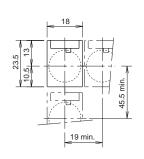


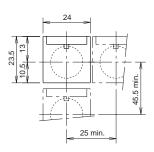
#### Key Selector Switches, Ø 5/8" (16mm)

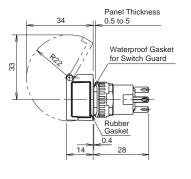




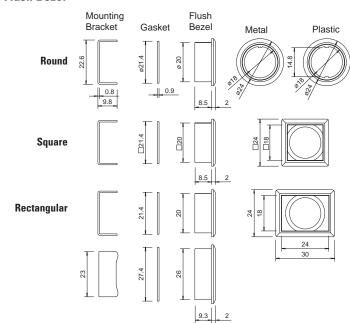




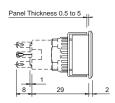




#### Flush Bezel



#### Flush Bezel with Switch



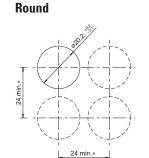
#### **Selector Switches**

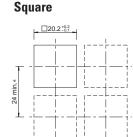
Illuminated & Non-illuminated



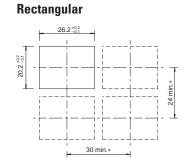


#### Flush Bezel Mounting Hole Layout



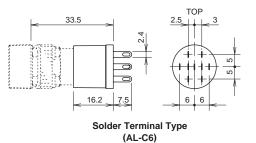


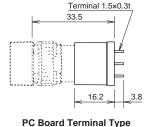
24 min.\*



#### **Terminal Sockets**

IDEC





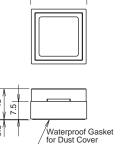
Board Terminal Type (AL-C6V)

PC Board Mounting Hole Layout (Bottom View)

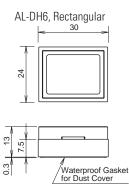
Terminal Arrangement (Bottom View)

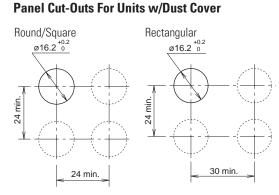
#### **Dust Covers**





AL-DQ6, Square





#### **Marking Plates**

#### **Pushbuttons with Standard Size Lens**

Waterproof Gasket for Dust Cover

Style	Round—AL6M-W	Square—AL6Q-W	Rectangular—AL6H-W
Dimensions	Marking Area	Engraving Area	OD <sup>2</sup> Engraving OD Area  a <sup>2</sup>
		Ø 5/8" (16mm)	
Outside (OD)	(13.8mm)	(13.8mm)	(OD¹ x OD²) 13.8 x 19.8mm
Marking Area (a)	(12mm)	(12mm)	(a¹xa²) 12 x 18mm



### Pushbuttons with Oversize Lens

Style	Round—AL6M-MW	Square/Rectangular—AL6Q-QW	
Dimensions	øa øOD Marking Area	OD Marking Area	
Outside (OD)	Ø 0.491" (12.6mm)	0.491" (12.6mm)	
Marking Area (a)	Ø 0.429" (11mm)	0.429" (11mm)	

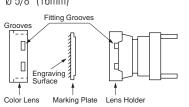


Engraving must be made on the engraving area within 0.02" (0.5mm) deep.

#### **Replacing & and Marking Plate**

#### Removal

Remove the lens holder assembly (lens, marking plate and holder) from the operator by holding the color lens recesses with the lens removal tool (Part No.MT-101) and pulling out. Remove marking plate by pushing the color lens from the rear to disengage the latches. Marking plate must be engraved on the side as shown in the figure on the right.  $\emptyset$  5/8" (16mm)



#### Installation

For illuminated pushbuttons:

- 1. Insert marking plate inside lens in correct direction
- 2. Press color lens on to lens holder to engage latches.
- 3. Insert lens holder into housing in correct direction.
- Do not loosen spring on illuminated pushbutton units (except on pilot light units). The marking plate must be engraved on the front side as shown above.