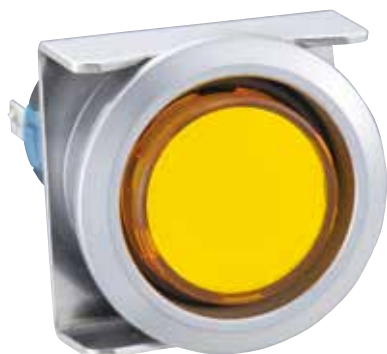


ø16 Switches & Pilot Lights

A6 Series



Light duty in short 22 mm body length.
Flush bezel accessories can be used to change A6 series to Flush Silhouette switches.



- CCC: Except pilot lights
- See website for details on approvals and standards.

Suitable for a wide variety of office and factory applications.

Features IDEC's original mechanism for snap-action switching.

The LED lamp contains a current-limiting resistor and a diode for protection against reverse connection.

Degree of protection: IP40 and IP65 (IEC 60529)

Standard Bezel

A6 SERIES

[Bezel size] [From panel front] [Shape] [Contact rating] [Action] [Operating stroke]

ø18 □18 18×24 9 mm Unibody 3A Light 3 mm

Illuminated Pushbuttons



Pushbuttons



Pilot Lights



Selector Switches



Key Selector Switches



Flush Bezel

A6 SERIES

[Bezel size] [From panel front] [Shape] [Contact rating] [Action] [Operating stroke]

ø24 □24 18×24 2 mm Unibody 3A Light 3 mm

Flush bezel accessories provide a sleek updated look. Enables downsizing of equipment.

Illuminated Pushbuttons



Pushbuttons



Pilot Lights



Selector Switches



Key Selector Switches



ø16 A6 Series Miniature Switches & Pilot Lights

Light duty in short 22mm body length.



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Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

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Miniature

Pilot Lights

LB

A6

Specifications and Ratings

Contact Ratings (Contact Block)

Rated Insulation Voltage		250V			
Rated Thermal Current		3A			
Operating Voltage (AC/DC)		12V	24V	110V	220V
AC 50/60 Hz	Resistive Load	—	—	1.0A	0.5A
	Inductive Load	—	—	0.7A	0.5A
DC	Resistive Load	1.0A	1.0A	0.2A	—
	Inductive Load	0.7A	0.7A	0.1A	—
Contact Material		Gold plated silver			

- Minimum applicable load: 5V AC/DC, 1 mA
(applicable range may vary with operating conditions and load types)

Weight (example)

Weight (approx.)	AL6M-M24:	8g
	AL6M-M221:	46g
	AL6M-P4:	6g
	AL6M-P21:	45g
	AB6M-M2:	7g
	AS6M-2Y2:	9g
	AS6M-2KT2A:	21g

Specifications

Operating Temperature		−25 to +55°C (no freezing)
Storage Temperature		−30 to +80°C (no freezing)
Operating Humidity		45 to 85% RH (no condensation)
Contact Resistance		50 mΩ maximum (initial value)
Insulation Resistance		100 MΩ minimum (500V DC megger)
Dielectric Strength	Switch Unit	Between live and dead metal parts: 2,000V AC, 1 minute Between terminals of different poles: 2,000V AC, 1 minute Between terminals of the same pole: 1,000V AC, 1 minute Between contact and lamp terminals: 1,500V AC, 1 minute
	Illumination Unit	Between live part and ground: 2,000V AC, 1 minute
Vibration Resistance		Operating extremes: 5 to 55 Hz, amplitude 0.75 mm
Shock Resistance		Damage limits: 500 m/s ² Operating extremes: 200 m/s ²
Mechanical Durability (minimum operations)		Momentary: 1,000,000 operations Maintained: 100,000 operations Selector Switch: 250,000 operations Key Selector Switch: 250,000 operations
Electrical Durability (minimum operations)		Other than Maintained: 100,000 operations Maintained: 50,000 operations (Switching frequency 1200 operations/h)
Degree of Protection		IP40, IP65 (IEC 60529)
Terminal Style		Solder terminal

LED Lamp Ratings (LATD)

Unit	Rated Voltage	5V DC	12V AC/DC	24V AC/DC
	Voltage Range	5V DC ±5%	12V AC/DC ±10%	24V AC/DC ±10%
LED Lamp	Part No.	LATD-5 ② N	LATD-1 ② N	LATD-2 ② N
	Lamp Base	Exclusive for A series control units		
	Current Draw	5 mA		
	Lamp Base Color	Same as illumination color (except JW - gray base)		
	Voltage Marking	Die stamped on the base		
	Life (reference value)	Approx. 50,000 hours (The luminance is reduced to 50% of the initial intensity when used on complete DC.)		
	Internal Circuit			

- Specify a color code in place of ② in the Part No.
A (amber), G (green), JW (pure white), R (red), S (blue)
- Use a pure white (JW) LED lamp for yellow illumination.

ø16 A6 Series Miniature Switches & Pilot Lights

Illuminated Pushbuttons

Quantity: 1

Shape	Operation	Operating Voltage	Contact	Part No.		② Illumination Color Code
				IP40	IP65	
Round AL6M 	Momentary	5V DC	SPDT	AL6M-M11②	AL6M-M11P②	Specify a color code in place of ② in the Part No. A: amber G: green JW: pure white R: red S: blue Y: yellow
			DPDT	AL6M-M21②	AL6M-M21P②	
		12V AC/DC	SPDT	AL6M-M13②	AL6M-M13P②	
			DPDT	AL6M-M23②	AL6M-M23P②	
		24V AC/DC	SPDT	AL6M-M14②	AL6M-M14P②	
			DPDT	AL6M-M24②	AL6M-M24P②	
	Maintained	5V DC	SPDT	AL6M-A11②	AL6M-A11P②	
			DPDT	AL6M-A21②	AL6M-A21P②	
		12V AC/DC	SPDT	AL6M-A13②	AL6M-A13P②	
			DPDT	AL6M-A23②	AL6M-A23P②	
		24V AC/DC	SPDT	AL6M-A14②	AL6M-A14P②	
			DPDT	AL6M-A24②	AL6M-A24P②	
Square AL6Q 	Momentary	5V DC	SPDT	AL6Q-M11②	AL6Q-M11P②	
			DPDT	AL6Q-M21②	AL6Q-M21P②	
		12V AC/DC	SPDT	AL6Q-M13②	AL6Q-M13P②	
			DPDT	AL6Q-M23②	AL6Q-M23P②	
		24V AC/DC	SPDT	AL6Q-M14②	AL6Q-M14P②	
			DPDT	AL6Q-M24②	AL6Q-M24P②	
	Maintained	5V DC	SPDT	AL6Q-A11②	AL6Q-A11P②	
			DPDT	AL6Q-A21②	AL6Q-A21P②	
		12V AC/DC	SPDT	AL6Q-A13②	AL6Q-A13P②	
			DPDT	AL6Q-A23②	AL6Q-A23P②	
		24V AC/DC	SPDT	AL6Q-A14②	AL6Q-A14P②	
			DPDT	AL6Q-A24②	AL6Q-A24P②	
Rectangular AL6H 	Momentary	5V DC	SPDT	AL6H-M11②	AL6H-M11P②	
			DPDT	AL6H-M21②	AL6H-M21P②	
		12V AC/DC	SPDT	AL6H-M13②	AL6H-M13P②	
			DPDT	AL6H-M23②	AL6H-M23P②	
		24V AC/DC	SPDT	AL6H-M14②	AL6H-M14P②	
			DPDT	AL6H-M24②	AL6H-M24P②	
	Maintained	5V DC	SPDT	AL6H-A11②	AL6H-A11P②	
			DPDT	AL6H-A21②	AL6H-A21P②	
		12V AC/DC	SPDT	AL6H-A13②	AL6H-A13P②	
			DPDT	AL6H-A23②	AL6H-A23P②	
		24V AC/DC	SPDT	AL6H-A14②	AL6H-A14P②	
			DPDT	AL6H-A24②	AL6H-A24P②	
Rectangular w/three-sided barrier AL6G 	Momentary	5V DC	SPDT	AL6G-M11②	AL6G-M11P②	
			DPDT	AL6G-M21②	AL6G-M21P②	
		12V AC/DC	SPDT	AL6G-M13②	AL6G-M13P②	
			DPDT	AL6G-M23②	AL6G-M23P②	
		24V AC/DC	SPDT	AL6G-M14②	AL6G-M14P②	
			DPDT	AL6G-M24②	AL6G-M24P②	
	Maintained	5V DC	SPDT	AL6G-A11②	AL6G-A11P②	
			DPDT	AL6G-A21②	AL6G-A21P②	
		12V AC/DC	SPDT	AL6G-A13②	AL6G-A13P②	
			DPDT	AL6G-A23②	AL6G-A23P②	
		24V AC/DC	SPDT	AL6G-A14②	AL6G-A14P②	
			DPDT	AL6G-A24②	AL6G-A24P②	

- See B-151 for dimensions.
- See B-166 for marking plate size and engraving area.
- IP65 types come with a packing in the lens unit.
- Illuminated switches have a built-in LED lamp.

Pilot Lights

Quantity: 1

Shape	Operating Voltage	Part No.		② Illumination Color Code
		IP40	IP65	
Round AL6M-P 	5V DC	AL6M-P1②	AL6M-P1P②	Specify a color code in place of ② in the Part No. A: amber G: green JW: pure white R: red S: blue Y: yellow
	12V AC/DC	AL6M-P3②	AL6M-P3P②	
	24V AC/DC	AL6M-P4②	AL6M-P4P②	
Square AL6Q-P 	5V DC	AL6Q-P1②	AL6Q-P1P②	
	12V AC/DC	AL6Q-P3②	AL6Q-P3P②	
	24V AC/DC	AL6Q-P4②	AL6Q-P4P②	
Rectangular AL6H-P 	5V DC	AL6H-P1②	AL6H-P1P②	
	12V AC/DC	AL6H-P3②	AL6H-P3P②	
	24V AC/DC	AL6H-P4②	AL6H-P4P②	
Rectangular w/three-sided barrier AL6G-P 	5V DC	AL6G-P1②	AL6G-P1P②	
	12V AC/DC	AL6G-P3②	AL6G-P3P②	
	24V AC/DC	AL6G-P4②	AL6G-P4P②	

- See **B-151** for dimensions.
- See **B-166** for marking plate size and engraving area.
- Pilot lights have a built-in LED lamp.

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Miniature

Pilot Lights

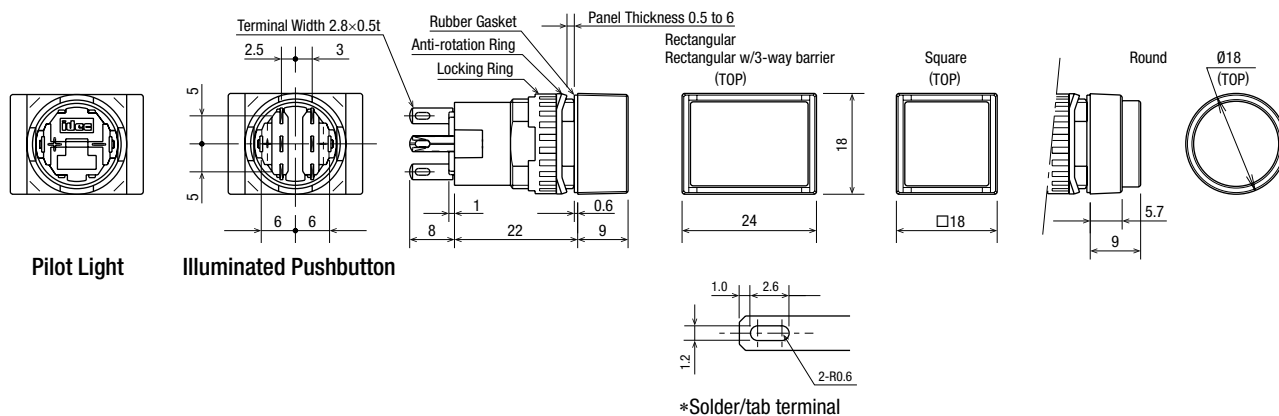
LB

A6

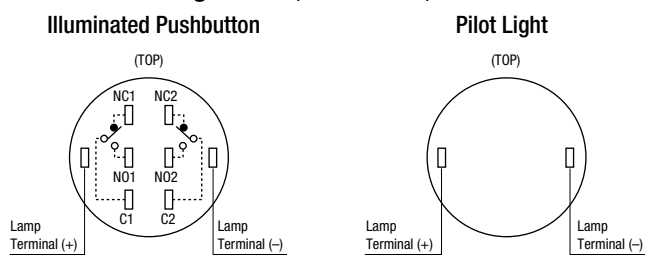
ø16 A6 Series Miniature Switches & Pilot Lights

Dimensions (Illuminated Pushbuttons & Pilot Lights)

All dimensions in mm.

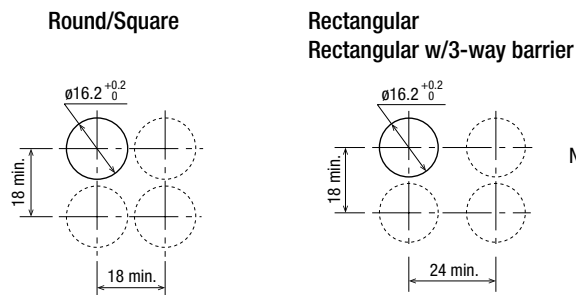


Terminal Arrangement (bottom view)



1NO: NC1, NO1, C1 terminal only

Mounting Hole Layout



Note: Determine mounting centers to ensure easy operation.

Pushbuttons

Quantity: 1

Shape	Button Style	Operation	Contact	Part No.		Color Code ①②
				IP40	IP65	
Round AB6M 	Button	Momentary	SPDT	AB6M-M1①	AB6M-M1P①	B black G: green R: red S: blue W: white Y: yellow
			DPDT	AB6M-M2①	AB6M-M2P①	
		Maintained	SPDT	AB6M-A1①	AB6M-A1P①	
			DPDT	AB6M-A2①	AB6M-A2P①	
	Lens	Momentary	SPDT	AB6M-M1L②	AB6M-M1PL②	A: amber G: green R: red S: blue W: white Y: yellow
			DPDT	AB6M-M2L②	AB6M-M2PL②	
		Maintained	SPDT	AB6M-A1L②	AB6M-A1PL②	
			DPDT	AB6M-A2L②	AB6M-A2PL②	
Square AB6Q 	Button	Momentary	SPDT	AB6Q-M1①	AB6Q-M1P①	B black G: green R: red S: blue W: white Y: yellow
			DPDT	AB6Q-M2①	AB6Q-M2P①	
		Maintained	SPDT	AB6Q-A1①	AB6Q-A1P①	
			DPDT	AB6Q-A2①	AB6Q-A2P①	
	Lens	Momentary	SPDT	AB6Q-M1L②	AB6Q-M1PL②	A: amber G: green R: red S: blue W: white Y: yellow
			DPDT	AB6Q-M2L②	AB6Q-M2PL②	
		Maintained	SPDT	AB6Q-A1L②	AB6Q-A1PL②	
			DPDT	AB6Q-A2L②	AB6Q-A2PL②	
Rectangular AB6H 	Button	Momentary	SPDT	AB6H-M1①	AB6H-M1P①	B black G: green R: red S: blue W: white Y: yellow
			DPDT	AB6H-M2①	AB6H-M2P①	
		Maintained	SPDT	AB6H-A1①	AB6H-A1P①	
			DPDT	AB6H-A2①	AB6H-A2P①	
	Lens	Momentary	SPDT	AB6H-M1L②	AB6H-M1PL②	A: amber G: green R: red S: blue W: white Y: yellow
			DPDT	AB6H-M2L②	AB6H-M2PL②	
		Maintained	SPDT	AB6H-A1L②	AB6H-A1PL②	
			DPDT	AB6H-A2L②	AB6H-A2PL②	
Rectangular w/three-sided barrier AB6G 	Button	Momentary	SPDT	AB6G-M1①	AB6G-M1P①	B black G: green R: red S: blue W: white Y: yellow
			DPDT	AB6G-M2①	AB6G-M2P①	
		Maintained	SPDT	AB6G-A1①	AB6G-A1P①	
			DPDT	AB6G-A2①	AB6G-A2P①	
	Lens	Momentary	SPDT	AB6G-M1L②	AB6G-M1PL②	A: amber G: green R: red S: blue W: white Y: yellow
			DPDT	AB6G-M2L②	AB6G-M2PL②	
		Maintained	SPDT	AB6G-A1L②	AB6G-A1PL②	
			DPDT	AB6G-A2L②	AB6G-A2PL②	

- Specify a color code in place of ① or ② in the Part No.
- See **B-151** for dimensions.
- See **B-166** for marking plate size and engraving area.
- Black is available for lens style buttons. Black lens consists of a clear lens and a black marking plate. Specify "B" in place of ② in the Part No.
Example: **AB6H-M2LB**

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Pilot Lights

LB

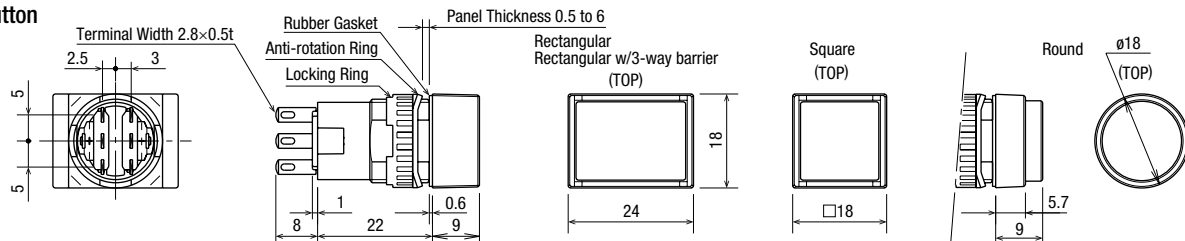
A6

ø16 A6 Series Miniature Switches & Pilot Lights

Dimensions (Pushbuttons)

All dimensions in mm.

Pushbutton

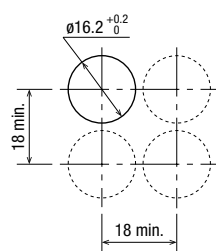


* Solder/Tab Terminal

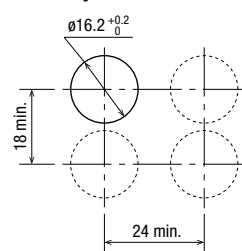
- See **B-164** for lens and button maintenance parts.

Mounting Hole Layout

Round/Square

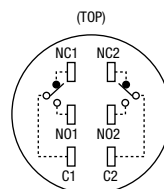


Rectangular w/3-way barrier



Terminal Arrangement (bottom view)

Pushbutton



Note: SPDT has only NC1, NO1, and C1 terminals.

Note: Determine mounting centers to ensure easy operation.

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Pilot Lights

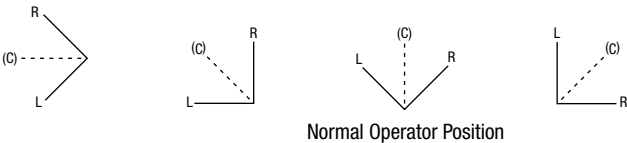
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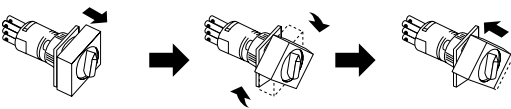
Selector Switches

Operator position can be changed by IDEC's original bezel rotating and locking system. The bezel can be locked at every 45° and bezel rotation is prevented while mounting on a panel.

Example: 3-position



How to change the operator position



Pull out the bezel to release the lock. Rotate the bezel, and push it in at 45° intervals to lock the bezel.

Quantity: 1

Shape	Position		Contact	Part No.	
				IP40	IP65
	90° 2-position	Maintained	SPDT	AS6M-2Y1	AS6M-2Y1P
		Spring return from right to left	DPDT	AS6M-2Y2	AS6M-2Y2P
	45° 3-position	Maintained	SPDT	AS6M-21Y1	AS6M-21Y1P
		Spring return from right to center	DPDT	AS6M-21Y2	AS6M-21Y2P
		Spring return from left to center	DPDT	AS6M-31Y2	AS6M-31Y2P
		Spring return two-way	DPDT	AS6M-32Y2	AS6M-32Y2P
	90° 2-position	Maintained	SPDT	AS6Q-2Y1	AS6Q-2Y1P
		Spring return from right to left	DPDT	AS6Q-2Y2	AS6Q-2Y2P
	45° 3-position	Maintained	SPDT	AS6Q-21Y1	AS6Q-21Y1P
		Spring return from right to center	DPDT	AS6Q-21Y2	AS6Q-21Y2P
		Spring return from left to center	DPDT	AS6Q-31Y2	AS6Q-31Y2P
		Spring return two-way	DPDT	AS6Q-32Y2	AS6Q-32Y2P
	90° 2-position	Maintained	SPDT	AS6H-2Y1	AS6H-2Y1P
		Spring return from right to left	DPDT	AS6H-2Y2	AS6H-2Y2P
	45° 3-position	Maintained	SPDT	AS6H-21Y1	AS6H-21Y1P
		Spring return from right to center	DPDT	AS6H-21Y2	AS6H-21Y2P
		Spring return from left to center	DPDT	AS6H-31Y2	AS6H-31Y2P
		Spring return two-way	DPDT	AS6H-32Y2	AS6H-32Y2P

- Bezel: black
- Knob: black

Contact Operation				
Position	Operation	Left	Center	Right
90° 2-position		SPDT		
			—	
		DPDT		
			—	
45° 3-position		DPDT		
				
				
				

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Miniature

Pilot Lights

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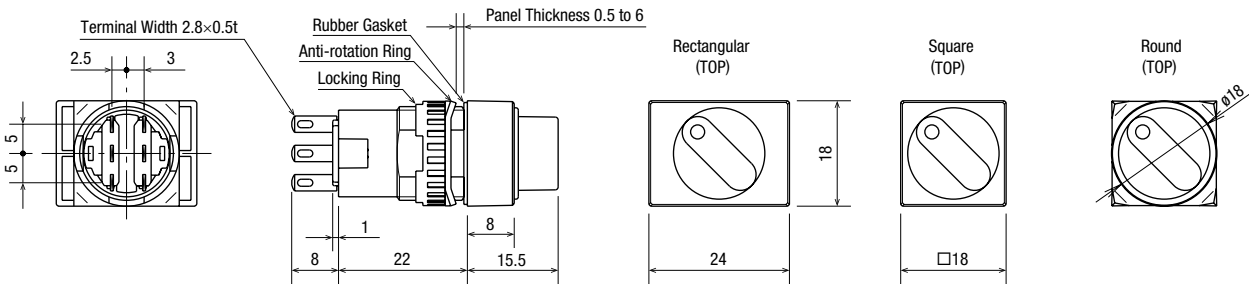
ø16 A6 Series Miniature Switches & Pilot Lights

Dimensions (Selector Switches)

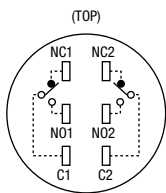
All dimensions in mm.

Dimensions

All dimensions in mm.

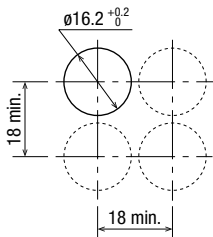


Terminal Arrangement (bottom view)
(Selector Switch)

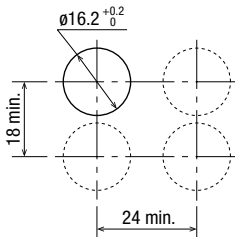


SPDT has NC1, NO1, and C1 only.

Mounting Hole Layout
Round/Square



Rectangular



Note: Determine mounting centers to ensure easy operation.

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Pilot Lights

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Enabling
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Circuit
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Power Supplies

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Controllers

Operator
Interfaces

Sensors

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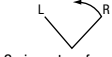
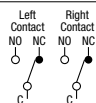
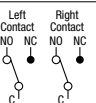
Key Selector Switches (Round)

Quantity: 1

Shape	Position	Operation	Key Retained at ●		Contact	Part No.	
						IP40	IP65
Round AS6M 	90° 2-position	Maintained	A		SPDT	AS6M-2KT1A	AS6M-2KT1PA
				DPDT	AS6M-2KT2A	AS6M-2KT2PA	
			B		SPDT	AS6M-2KT1B	AS6M-2KT1PB
				DPDT	AS6M-2KT2B	AS6M-2KT2PB	
		C		SPDT	AS6M-2KT1C	AS6M-2KT1PC	
			DPDT	AS6M-2KT2C	AS6M-2KT2PC		
	Spring return from right	B		SPDT	AS6M-21KT1B	AS6M-21KT1PB	
			DPDT	AS6M-21KT2B	AS6M-21KT2PB		
	45° 3-position	Maintained	A		DPDT	AS6M-3KT2A	AS6M-3KT2PA
					DPDT	AS6M-3KT2B	AS6M-3KT2PB
					DPDT	AS6M-3KT2C	AS6M-3KT2PC
					DPDT	AS6M-3KT2D	AS6M-3KT2PD
					DPDT	AS6M-3KT2E	AS6M-3KT2PE
					DPDT	AS6M-3KT2G	AS6M-3KT2PG
					DPDT	AS6M-3KT2H	AS6M-3KT2PH
				Spring return from right	B		DPDT
			DPDT			AS6M-31KT2D	AS6M-31KT2PD
			DPDT			AS6M-31KT2G	AS6M-31KT2PG
		Spring return from left	C		DPDT	AS6M-32KT2	AS6M-32KT2PC
					DPDT	AS6M-32KT2D	AS6M-32KT2PD
					DPDT	AS6M-32KT2H	AS6M-32KT2PH
		Spring return two-way	D		DPDT	AS6M-33KT2D	AS6M-33KT2PD

- Key is retained at ● positions and removable at ○ positions.
- Two keys are supplied.
- The front of key cylinder is made of metal.
- Disc tumbler key. Only one key number is available.

Contact Operation

Operator Position & Contact Operation (Top View)					
Positions		Contact	↖ Left	↑ Center	↗ Right
90° 2-position	 Maintained  Spring return from right	SPDT		—	
		DPDT		—	
45° 3-position	 Maintained  Spring return from right  Spring return from left  Spring return two-way	DPDT			

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

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Miniature

Pilot Lights

LB

A6

Key Selector Switches (Square)

Quantity: 1

Shape	Position	Operation	Key Retained at ●		Contact	Part No.	
						IP40	IP65
Square AS6Q	90° 2-position	Maintained	A		SPDT	AS6Q-2KT1A	AS6Q-2KT1PA
				DPDT	AS6Q-2KT2A	AS6Q-2KT2PA	
			B		SPDT	AS6Q-2KT1B	AS6Q-2KT1PB
				DPDT	AS6Q-2KT2B	AS6Q-2KT2PB	
			C		SPDT	AS6Q-2KT1C	AS6Q-2KT1PC
				DPDT	AS6Q-2KT2C	AS6Q-2KT2PC	
		Spring return from right	B		SPDT	AS6Q-21KT1B	AS6Q-21KT1PB
				DPDT	AS6Q-21KT2B	AS6Q-21KT2PB	
	45° 3-position	Maintained	A		DPDT	AS6Q-3KT2A	AS6Q-3KT2PA
			B		DPDT	AS6Q-3KT2B	AS6Q-3KT2PB
			C		DPDT	AS6Q-3KT2C	AS6Q-3KT2PC
			D		DPDT	AS6Q-3KT2D	AS6Q-3KT2PD
			E		DPDT	AS6Q-3KT2E	AS6Q-3KT2PE
			G		DPDT	AS6Q-3KT2G	AS6Q-3KT2PG
			H		DPDT	AS6Q-3KT2H	AS6Q-3KT2PH
		Spring return from right	B		DPDT	AS6Q-31KT2B	AS6Q-31KT2PB
			D		DPDT	AS6Q-31KT2D	AS6Q-31KT2PD
			G		DPDT	AS6Q-31KT2G	AS6Q-31KT2PG
		Spring return from left	C		DPDT	AS6Q-32KT2C	AS6Q-32KT2PC
			D		DPDT	AS6Q-32KT2D	AS6Q-32KT2PD
			H		DPDT	AS6Q-32KT2H	AS6Q-32KT2PH
		Spring return two-way	D		DPDT	AS6Q-33KT2D	AS6Q-33KT2PD



- Key is retained at ● positions and removable at ○ positions.
- Two keys are supplied.
- The front of key cylinder is made of metal.
- Disc tumbler key. Only one key number is available.

Contact Operation

Operator Position & Contact Operation (Top View)					
Positions		Contact	↙ Left	↑ Center	↘ Right
90° 2-position		SPDT		—	
		DPDT		—	
45° 3-position		DPDT			

Key Selector Switches (Rectangular)

Quantity: 1

Shape	Position	Operation	Key Retained at ●		Contact	Part No.	
						IP40	IP65
Rectangular AS6H 	90° 2-position	Maintained	A		SPDT	AS6H-2KT1A	AS6H-2KT1PA
				DPDT	AS6H-2KT2A	AS6H-2KT2PA	
			B		SPDT	AS6H-2KT1B	AS6H-2KT1PB
				DPDT	AS6H-2KT2B	AS6H-2KT2PB	
		Spring return from right	C		SPDT	AS6H-2KT1C	AS6H-2KT1PC
				DPDT	AS6H-2KT2C	AS6H-2KT2PC	
	45° 3-position	Maintained	B		SPDT	AS6H-21KT1B	AS6H-21KT1PB
				DPDT	AS6H-21KT2B	AS6H-21KT2PB	
			A		DPDT	AS6H-3KT2A	AS6H-3KT2PA
			B		DPDT	AS6H-3KT2B	AS6H-3KT2PB
			C		DPDT	AS6H-3KT2C	AS6H-3KT2PC
			D		DPDT	AS6H-3KT2D	AS6H-3KT2PD
			E		DPDT	AS6H-3KT2E	AS6H-3KT2PE
			G		DPDT	AS6H-3KT2G	AS6H-3KT2PG
		Spring return from right	H		DPDT	AS6H-3KT2H	AS6H-3KT2PH
			B		DPDT	AS6H-31KT2B	AS6H-31KT2PB
			D		DPDT	AS6H-31KT2D	AS6H-31KT2PD
		Spring return from left	G		DPDT	AS6H-31KT2G	AS6H-31KT2PG
			C		DPDT	AS6H-32KT2C	AS6H-32KT2PC
			D		DPDT	AS6H-32KT2D	AS6H-32KT2PD
		Spring return two-way	H		DPDT	AS6H-32KT2H	AS6H-32KT2PH
			D		DPDT	AS6H-33KT2D	AS6H-33KT2PD

- Key is retained at ● positions and removable at ○ positions.
- Two keys are supplied.
- The front of key cylinder is made of metal.
- Disc tumbler key. Only one key number is available.

Contact Operation

Operator Position & Contact Operation (Top View)					
Positions		Contact	Left	Center	Right
90° 2-position	 Maintained  Spring return from right	SPDT		—	
		DPDT		—	
45° 3-position	 Maintained  Spring return from right  Spring return from left  Spring return two-way	DPDT			

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

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Flush Silhouette

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Miniature

Pilot Lights

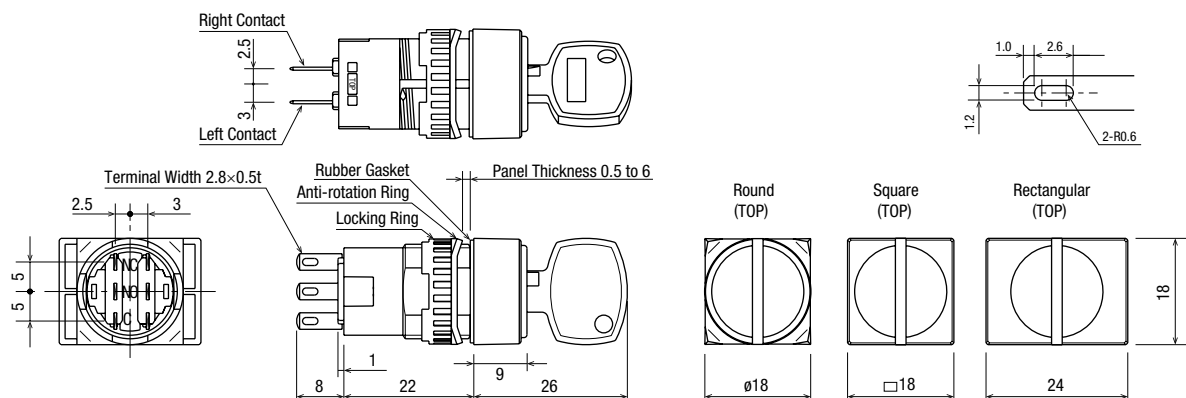
LB

A6

ø16 A6 Series Miniature Switches & Pilot Lights

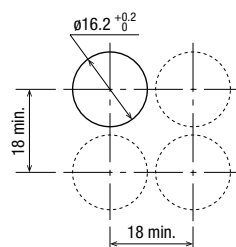
Dimensions

All dimensions in mm.

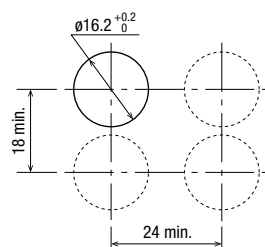


Mounting Hole Layout

Round/Square

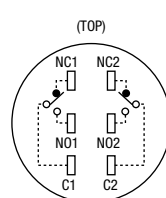


Rectangular



Terminal Arrangement (bottom view)

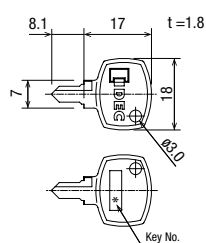
(Key Selector Switch)



SPDT has NC1, NO1, and C1 only.

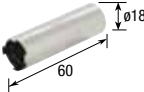
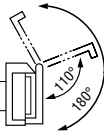
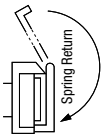
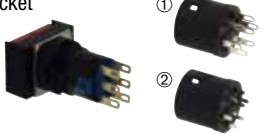
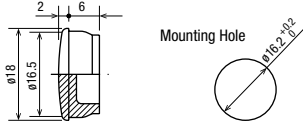
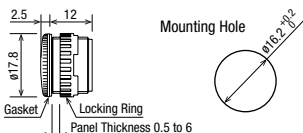
Note: Determine mounting centers to ensure easy operation.

Spare Key



Accessories

All dimensions in mm.

Shape			Material	Part No.	Quantity	Remarks
Locking Ring Wrench 			Metal (nickel-plated brass)	MT-001	1	• Used to tighten the locking ring when installing A6 control units into a panel.
Lamp Holder Tool 			Nitryl Rubber	OR-77	1	• Used to install and remove the LED lamps.
Lens Removal Tool 			Stainless Steel	MT-101	1	• Used to install and remove lenses and buttons.
Switch Guard	 [Maintained] For pushbuttons, illuminated pushbuttons	For round/ square units (110°, 180°)		LB9Z-K2	1	• Degree of protection: IP40 • Used to protect pushbuttons from inadvertent operation.
		For rectangular units (remains 110°, 180°)		LB9Z-K3P	1	• Degree of protection: IP65 • Used to protect pushbuttons from inadvertent operation.
	 [Spring return] For pushbuttons, illuminated pushbuttons	For round/ square units (180°)		AL-K6S	1	• Degree of protection: IP40 • Used to protect pushbuttons from inadvertent operation.
		For rectangular units (180°)		AL-K6SP	1	• Degree of protection: IP65 (when used with IP65 control units) • Used to protect pushbuttons from inadvertent operation.
				AL-KH6S	1	• Degree of protection: IP40 • Used to protect pushbuttons from inadvertent operation.
				AL-KH6SP	1	• Degree of protection: IP65 (when used with IP65 control units) • Used to protect pushbuttons from inadvertent operation.
	Dust Cover 		①For round units ②For square units ③For rectangular units	Translucent cover: elastomer Rear/black part: polypropylene See B-161 for dimensions.	AL-D6 AL-DQ6 AL-DH6	1 1 1
Terminal Cover 			Polyamide (white) See B-162 for dimensions.	AL-V6	10	• When wiring the terminals, insert the lead wires into the terminal cover holes before soldering. • Terminal cover is not attached and must be ordered separately.
Socket 		①Solder Terminal ②PC Board Terminal	Enclosure: Polyamide (black) Terminal block: Brass/zinc-plated See B-162 for dimensions.	AL-C6 AL-C6V	1 1	• Plugs on the rear of the A series control units.
Mounting Hole Plug 		Rubber	Nitryl rubber (black)	AL-B6	5	• Degree of protection: IP65 
Mounting Hole Plug 		Metal	Plug: metal (diecast) Locking ring: polyacetal Gasket: nitryl rubber	AL-BM6	1	• Degree of protection: IP65 • Tightening torque: 0.1 to 0.29 N-m. 

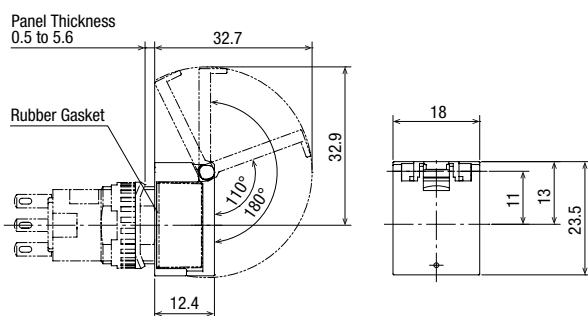
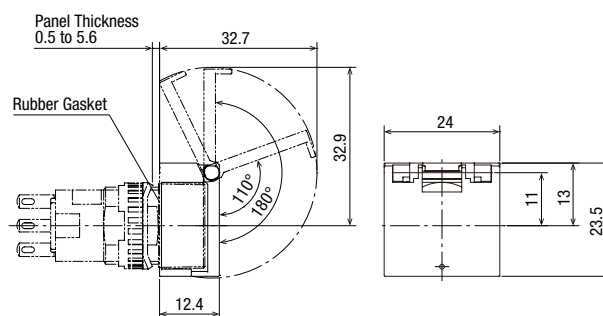
ø16 A6 Series Miniature Switches & Pilot Lights

Dimensions

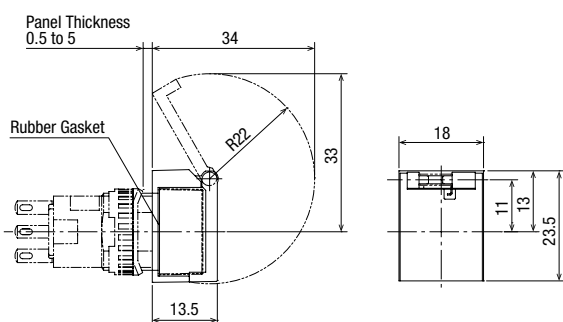
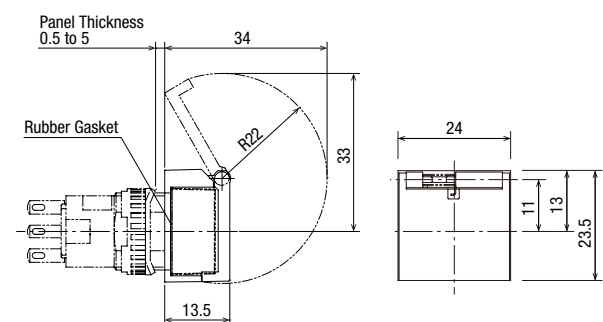
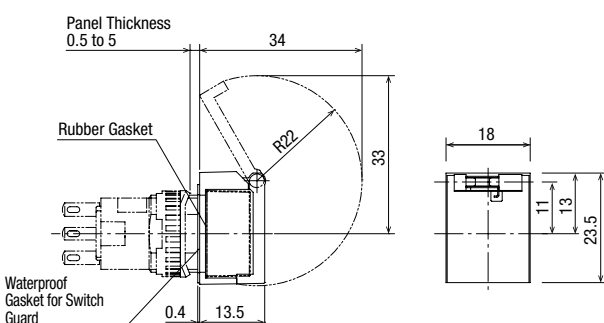
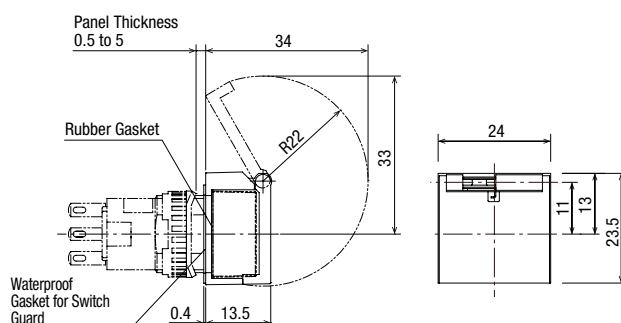
All dimensions in mm.

Switch Guard

[Remains open]

For round/square units (Degree of protection: IP40)
LB9Z-K2For rectangular units (Degree of protection: IP65)
LB9Z-K3P

[Spring return]

For round/square units (Degree of protection: IP40)
AL-K6SFor rectangular units (Degree of protection: IP40)
AL-KH6SFor round/square units (Degree of protection: IP65)
AL-K6SPFor rectangular units (Degree of protection: IP65)
AL-KH6SP

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ø30

Miniature

Pilot Lights

LB

A6

APEM
Switches & Pilot Lights
Control Boxes
Emergency Stop Switches
Enabling Switches
Safety Products
Explosion Proof
Terminal Blocks
Relays & Sockets
Circuit Protectors
Power Supplies
LED Illumination
Controllers
Operator Interfaces
Sensors
AUTO-ID
Flush Silhouette
ø16
ø22
ø30
Miniature
Pilot Lights

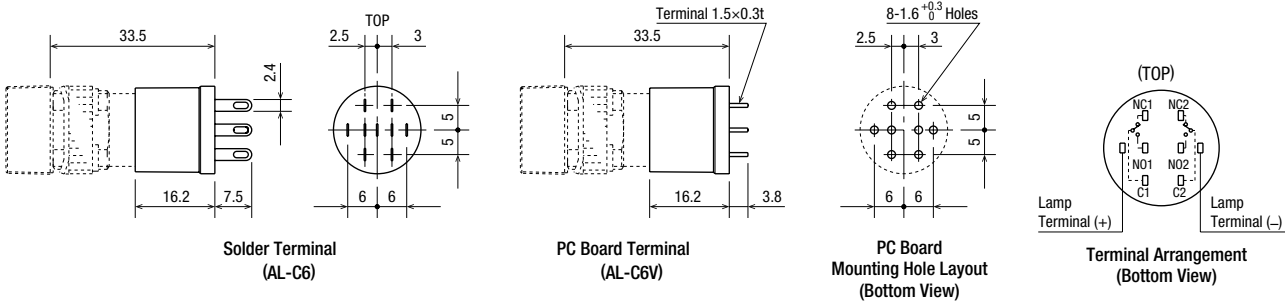
LB

A6

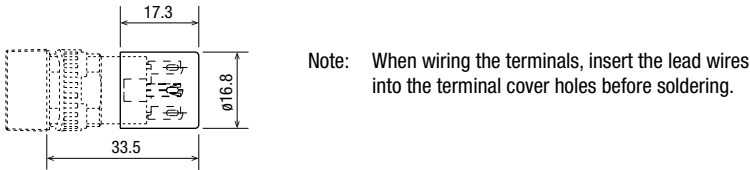
Dimensions

All dimensions in mm.

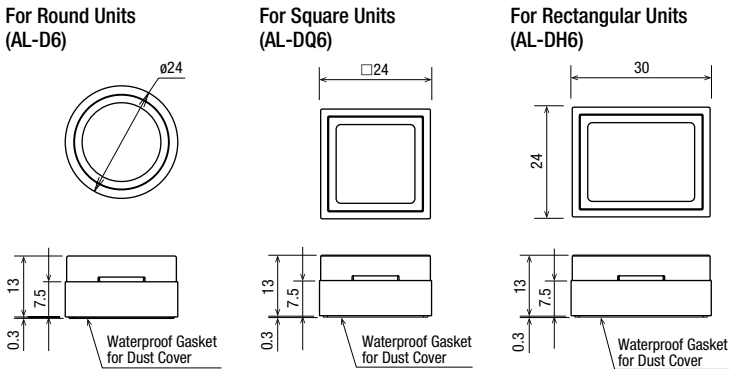
Socket



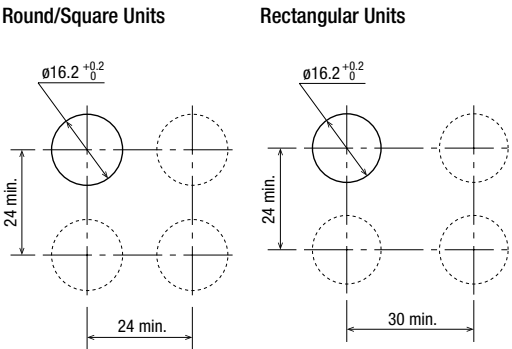
Terminal Cover



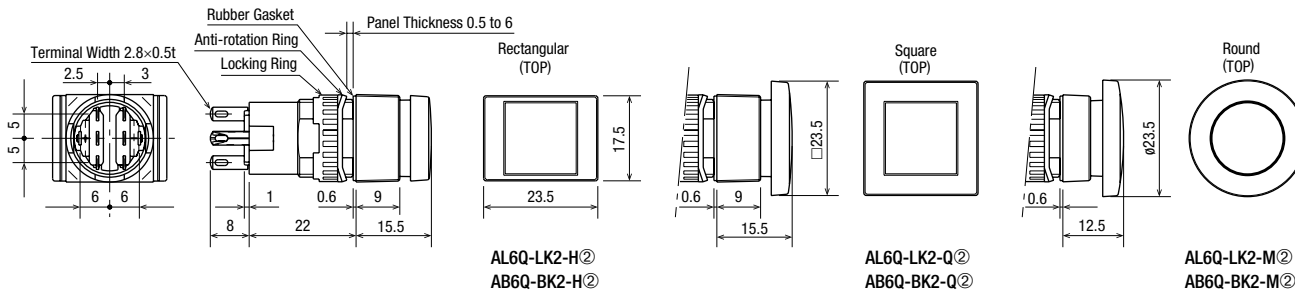
Dust Cover



Mounting Hole Centers



Large Lens and Large Button



Grip Switch Housing

Grip Style Enabling Switch Housing

The following switches can be installed on the grip style enabling switch housing to be used as hand-held switches.

- AB6M pushbuttons (IP65, except for AB6M-V)
- AS6M selector switches (IP65)
- AS6M key selector switches (IP65)

Note: Illuminated pushbuttons and pilot lights cannot be used. When using HE9Z-GSH51, be sure to use IP65 switches.

Part No.	Quantity
HE9Z-GSH51	1

Specifications

Applicable Standards	IEC/EN 60529
Operating Temperature	-25 to 60°C (no freezing)
Relative Humidity	45 to 85% RH (no condensation)
Storage Temperature	-40 to 80°C (no freezing)
Pollution Degree	3
Shock Resistance	Damage limits: 500 m/s ²
Vibration Resistance	Damage limits: 5 to 55 Hz, amplitude 0.5 mm
Electric Shock Protection Class	Class II (when using HE5B-M2P*)
Applicable Cable	Outside diameter ø4.5 to 10 mm
Conduit Port Size	M16 (cable gland is supplied with the grip style enabling switch housing)
Degree of Protection	IP65 (with HE5B-M2P*) NEMA type 4X indoor use only (with HE5B-M2P*)
Weight (approx.)	65g (grip style enabling switch housing only)

- The above specifications are for the grip style enabling switch housing only.

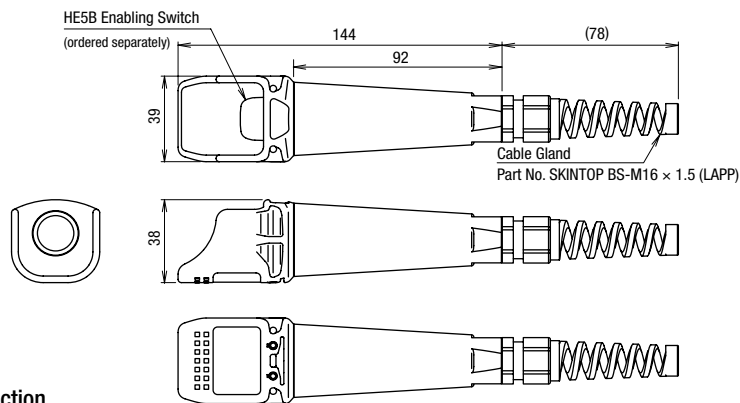


Notes:

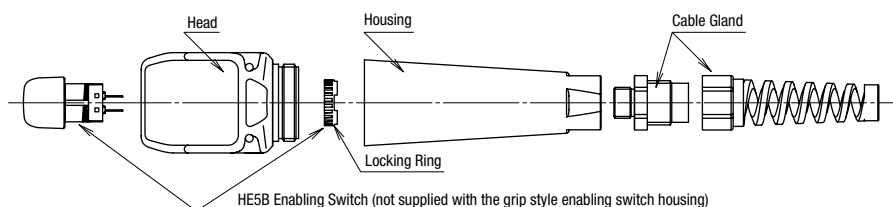
- The HE9Z-GSH51 grip style enabling switch housing does not include the HE5B enabling switch. The enabling switch must be ordered separately.
- The HE5B enabling switch must be installed and wired to the HE9Z-GSH51 grip style enabling switch housing by the user. For information on wiring, see the instruction sheet supplied with the HE9Z-GSH51.

Dimensions

HE9Z-GSH51



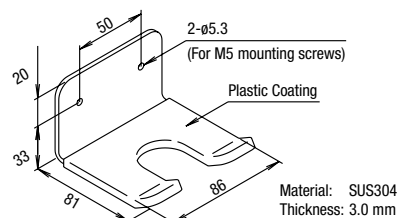
HE9Z-GSH51 + HE5B Construction



- Anti-rotation ring is not required when installing the HE5B enabling switch on the HE9Z-GSH51 grip style enabling switch housing. Use the locking ring only.

Mounting Bracket

Part No: HE9Z-GH1



All dimensions in mm.

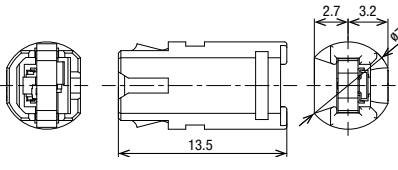
Dimensions

All dimensions in mm.

Shape		Specification		Part No.	Quantity	Remarks													
	Round	Polyarylate		AL6M-L②	5	Specify a color code in place of ② in the Part No. A (amber), C (clear), G (green) R (red), S (blue), Y (yellow) • Use a C (clear) lens for JW (pure white) illumination.													
	Square			AL6Q-L②															
	Rectangular			AL6H-L②															
	Round	Polyarylate		AB6M-B①	5	Specify a color code in place of ① in the Part No. B (black), G (green), R (red) S (blue), W (white), Y (yellow)													
	Square			AB6Q-B①															
	Rectangular			AB6H-B①															
	Round	Acrylic	White	AL6M-W	1														
			Black	AL6M-B															
	Square		White	AL6Q-W															
			Black	AL6Q-B															
	Rectangular		White	AL6H-W															
			Black	AL6H-B															
	Round (installed on round units)	Translucent color lens	AL6M-LK2-M②	1	- Specify a color code in place of ② in the Part No. - Degree of protection: IP65 ② Color Code<table><tr><th>Translucent Color Lens</th><th>Opaque Button</th></tr><tr><td>A (amber)</td><td>B (black)</td></tr><tr><td>G (green)</td><td>G (green)</td></tr><tr><td>R (red)</td><td>R (red)</td></tr><tr><td>S (blue)</td><td>S (blue)</td></tr><tr><td>W (white)</td><td>W (white)</td></tr><tr><td>Y (yellow)</td><td>Y (yellow)</td></tr></table> Note: Use a white (W) translucent color lens for pure white (JW) illumination. - See B-162 for dimensions.	Translucent Color Lens	Opaque Button	A (amber)	B (black)	G (green)	G (green)	R (red)	R (red)	S (blue)	S (blue)	W (white)	W (white)	Y (yellow)	Y (yellow)
		Translucent Color Lens	Opaque Button																
	A (amber)	B (black)																	
	G (green)	G (green)																	
	R (red)	R (red)																	
	S (blue)	S (blue)																	
W (white)	W (white)																		
Y (yellow)	Y (yellow)																		
Opaque button	AB6M-BK2-M②																		
Square (installed on square units)	Translucent color lens	AL6Q-LK2-Q②																	
	Opaque button	AB6Q-BK2-Q②																	
Rectangular (installed on square units)	Translucent color lens	AL6Q-LK2-H②																	
	Opaque button	AB6Q-BK2-H②																	
		Polyacetal	HA9Z-LN	10	Black														
		Stainless Steel	LB9Z-LP1																
	Key selector (disc tumbler key)	Brass with nickel plating	AS6-SK-132	2	Thickness 1.8 mm														
	Key selector (wave key)	Diecast zinc alloy (nickel-plated)	LA9Z-SK-□	2	Specify a key number in place of □ in the Part No. 0H: Standard key (reversible) 1H to 2H: Reversible key 3H to 6H: Non-reversible key														
																			
	Non-reversible																		
		Nitril rubber	AP6M-WM	10															

ø16 A6 Series Miniature Switches & Pilot Lights

LED Lamps

Dimensions	Operating Voltage	Current Draw	Part No.	② Illumination Color Code	Quantity	Base	Dimensions (mm)
	5V DC ±5%	5 mA	LATD-5②N	Specify a color code in place of ② in the Part No. A: amber G: green JW: pure white R: red S: blue	10	Exclusive for A6 series	
	12V AC/DC ±10%		LATD-1②N		10		
	24V AC/DC ±10%		LATD-2②N		10		

- Specify a color code in place of ② in the Part No.
A (amber), G (green), JW (pure white), R (red), S (blue)
- Use a pure white (JW) LED lamp for yellow illumination.

Transformer

Quantity: 1

Transformer	Primary Voltage	Secondary Voltage	Part No.	Applicable LED
	100/110V AC	±10%	TWR512	LATD-2②N
	200/220V AC	±10%	TWR522	
	400/440V AC	±10%	TWR542	

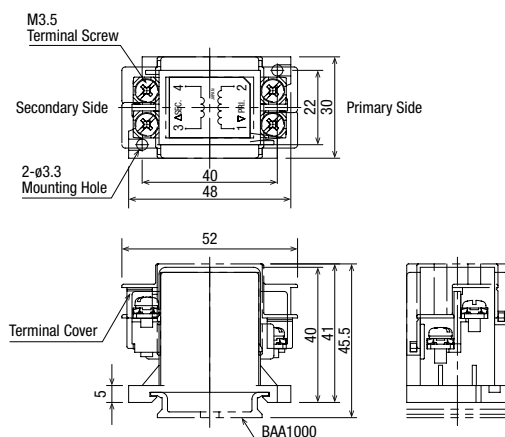
- Terminal cover is supplied as standard.
- Connect only one LATD to a transformer.

Specifications

Operating Voltage	100/110V AC, 200/220V AC, 400/440V AC (50/60Hz)
Current Draw	2.4VA
Rated Insulation Voltage	600V
Insulation Resistance	100 MΩ minimum (500V DC megger)
Operating Temperature	−30 to +60°C (no freezing)
Storage Temperature	−40 to +80°C (no freezing)
Operating Humidity	35 to 85% RH (no condensation)
Vibration Resistance	Damage limits: 30Hz, amplitude 1.5 mm Operating extremes: 5 to 55Hz, amplitude 0.5 mm
Shock Resistance	Damage limits: 1,000 m/s ² Operating extremes: 100 m/s ²
Dielectric Strength	2,500V AC, 1 minute
Terminal Screw	M3.5
Applicable Wire	2 mm ² maximum, 2 wires maximum
Weight (approx.)	87g

Dimensions

All dimensions in mm.



Accessories

Shape	Material	Part No.	Quantity
DIN 35 mm Rail Weight: 200g approx	Aluminum Length: 1000 mm	BAA1000	10
End Clip  Weight: 15g approx	Metal (zinc-plated steel) Applicable rail: BAA1000	BNL6	10

- See H-071 for DIN rail products.

Safety Precautions

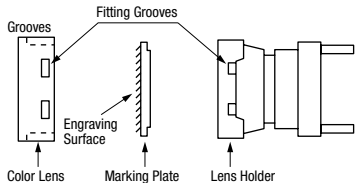
- Turn off the power to A series control units before starting installation, removal, wiring, maintenance, and inspection of the control units. Failure to turn power off may cause electrical shocks or fire hazard.
- To avoid a burn on your hand, use the lamp holder tool when replacing lamps.

Operating Instructions

Replacement of Lens and Marking Plate

Removal

Remove the lens assembly (color lens, marking plate, lens holder, and spring) by holding the color lens recesses with the Lens Removal Tool (MT-101) and pulling it out. Remove the marking plate by disengaging the latches between the color lens and lens holder. The marking plate must be engraved on the front side as shown at right. When using a color film, insert it between the color lens and marking plate.



Installation

Place the marking plate on the lens holder in the correct direction, and press the color lens onto the lens holder to engage the latches. Put the spring on the lens holder and insert the lens holder into the housing in the correct direction.

Marking

For A series illuminated pushbuttons, legends and symbols can be engraved on the built-in marking plates, or printed film can be inserted under the lens for labelling purposes.

Marking Plate & Engraving Area

	Round	Square	Rectangular
Built-in Marking Plate and Engraving Area	• Engraving must be made on the engraving area within 0.5mm deep. • The marking plate is made of white acrylic resin.	• Engraving must be made on the engraving area within 0.5mm deep. • The marking plate is made of white acrylic resin.	• Engraving must be made on the engraving area within 0.5mm deep. • The marking plate is made of white acrylic resin.
Applicable Marking Film (not supplied)	• Thickness = 0.1 mm × 1 film • Recommended film material: polyester	• Thickness = 0.1 mm × 1 film • Recommended film material: polyester	• Thickness = 0.1 mm × 1 film • Recommended film material: polyester

- For wiring, use wires of a proper size to meet the voltage and current requirements. Failure to tighten terminal screws may cause overheating and create a fire hazard.

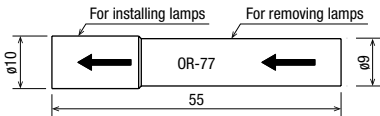
Replacing the LED Lamp

Removal

Use the lamp holder tool (OR-77) to remove lamps. Do not use pliers.

Installation

Use the lamp holder tool (OR-77) to install lamps. Note the correct side of the tool for removal or installation.



Panel Mounting

When mounting the control units into a panel, use the optional locking ring wrench (MT-001) to tighten the locking ring. Do not use pliers. Tightening torque must not exceed 0.88 N·m. Excessive tightening will damage the locking ring.

Wiring

Solder the terminal at 350°C within 3 seconds using a 60W soldering iron. Sn-Ag-Cu is recommended when using lead-free solder. When soldering, do not touch the control unit with the soldering iron. Also ensure that no tensile force is applied to the terminal. Do not bend the terminal or apply excessive force to the terminal. Use a non-corrosive rosin flux.

Installing the Socket

Install the socket on the control unit with the TOP markings on the control unit and the socket placed in the same direction.

Switch Guard

IP65 (IEC 60529) switch guards must be used with IP65 (IEC 60529) control units only. Even if IP65 type switch guards are installed, enclosed type (IP40) control units are not made waterproof.

Item	Switch Guard		
	IP65 (IEC 60529)	IP65 (IEC 60529)	IP40 (IEC 60529)
Control Unit	IP65	IP65	IP40
	IP40	IP40	IP40

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

LB

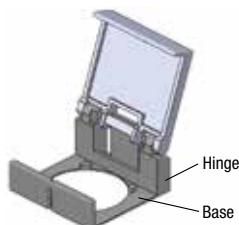
A6

Operating Instructions

Opening/closing the Switch Guard

(LB9Z-K2, LB9Z-K3P)

When opening/closing the switch guard while the switch guard is not installed on a panel, make sure to hold the hinge. Holding the base might result in damage. Also do not apply force on the guard in other than open/close directions, otherwise the hinge may be damaged.



Selector Switches with Key

Observe the following instructions to prevent malfunction or damage.

- Insert the key to the bottom of the key hole.
- Do not remove the key from any key retained position.
- Besides the standard key (key number OH), six other key numbers are available. Use a key of the matching number with the key cylinder. The standard key does not have a key number indication.

Operating Voltage of LED Lamps

The operating voltage of 5V DC is measured at complete DC.

Other Notes

Close Proximity Mounting

When mounting pilot lights or illuminated pushbuttons collectively or lighting them continuously, heat may cause the ambient temperature to rise above the rated operating temperature. When the mounting panel is not made of metal or when the control units are mounted in an enclosed panel, provide for ventilation or lower the operating voltage.

Replacement of Buttons (Illuminated/Non-illuminated)

Do not replace buttons of maintained action units while the button is in the locked position. Replacing the button in the locked position may damage the internal mechanism. Be sure to release the button before replacing.

Operating and Storage Environment

1. Make sure that the operating/storage temperature and humidity are within the ratings.
2. Do not use enclosed type units in an environment subject to oil, water or dust accumulation. In such an area, use the waterproof/oiltight units (IP65).

Microswitch Contacts

Do not connect NO and NC contacts of a microswitch to different voltages or different power sources to prevent a dead short-circuit.

IP65 Units

IP65 units are evaluated by conventional cutting and cooling oils, and can not be used with some special oils. Contact IDEC for resistance against specific oils.

APEM

Switches &
Pilot Lights

Control Boxes

Emergency
Stop SwitchesEnabling
Switches

Safety Products

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ø16

ø22

ø30

Miniature

Pilot Lights

LB

A6

Ordering Terms and Conditions

Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

- (1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined conditions.
Also, durability varies depending on the usage environment and usage conditions.
- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards.
Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
 - i. Use of IDEC products with sufficient allowance for rating and performance
 - ii. Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
 - iii. Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
- (4) Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.
- (5) IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.
 - i. Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health
 - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
 - iii. Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs, such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference
If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

4. Warranty

(1) Warranty period

The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

(2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- i. The product was handled or used deviating from the conditions / environment listed in the Catalogs
- ii. The failure was caused by reasons other than an IDEC product
- iii. Modification or repair was performed by a party other than IDEC
- iv. The failure was caused by a software program of a party other than IDEC
- v. The product was used outside of its original purpose
- vi. Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and Catalogs
- vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from IDEC
- viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters)

Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

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India IDEC Controls India Private Ltd.

China IDEC (Shanghai) Corporation
IDEC Hong Kong Co. Ltd.
Taiwan IDEC Taiwan Corporation

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