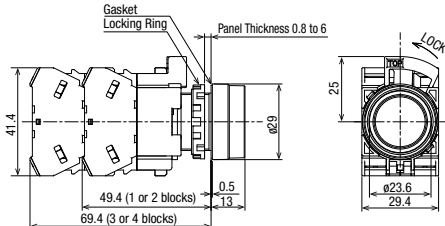
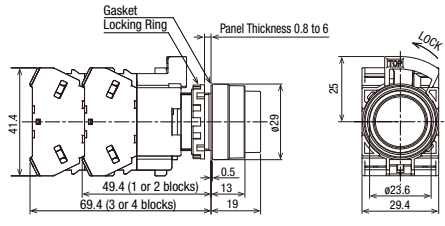
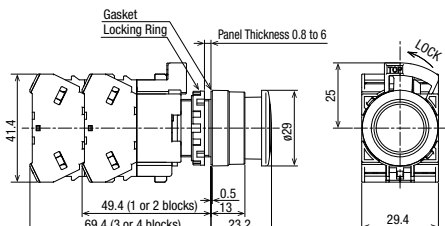
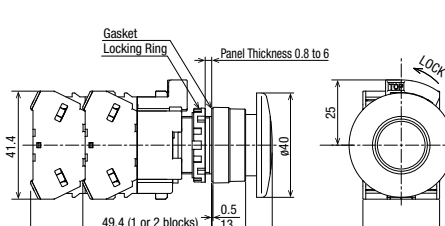
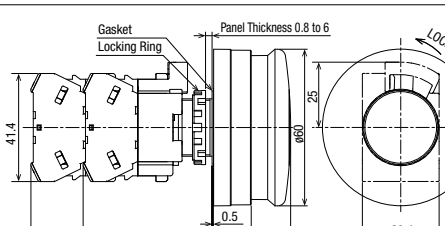


ø22 HW Series Pushbuttons

Flush / Extended / Mushroom Pushbuttons

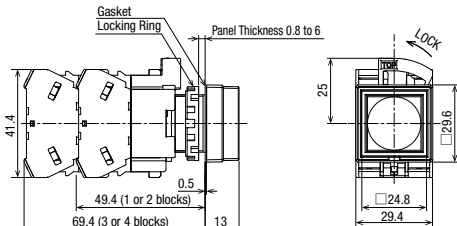
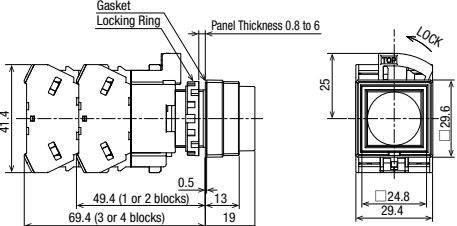
Quantity: 1

Shape	Operation	Contact	Part No.	Color Code	Dimensions (mm)
Flush HW1B-M1 HW1B-A1 	Momentary	1NO	HW1B-M110*	B G R Y S W	
		1NC	HW1B-M101*		
		1NO-1NC	HW1B-M111*		
		2NO	HW1B-M120*		
		2NC	HW1B-M102*		
		2NO-2NC	HW1B-M122*		
	Maintained	1NO	HW1B-A110*		
		1NC	HW1B-A101*		
		1NO-1NC	HW1B-A111*		
		2NO	HW1B-A120*		
		2NC	HW1B-A102*		
		2NO-2NC	HW1B-A122*		
Extended HW1B-M2 HW1B-A2 	Momentary	1NO	HW1B-M210*	B G R Y S W	
		1NC	HW1B-M201*		
		1NO-1NC	HW1B-M211*		
		2NO	HW1B-M220*		
		2NC	HW1B-M202*		
		2NO-2NC	HW1B-M222*		
	Maintained	1NO	HW1B-A210*		
		1NC	HW1B-A201*		
		1NO-1NC	HW1B-A211*		
		2NO	HW1B-A220*		
		2NC	HW1B-A202*		
		2NO-2NC	HW1B-A222*		
ø29mm Mushroom HW1B-M3 HW1B-A3 	Momentary	1NO	HW1B-M310*	B G R Y S W	
		1NC	HW1B-M301*		
		1NO-1NC	HW1B-M311*		
		2NO	HW1B-M320*		
		2NC	HW1B-M302*		
		2NO-2NC	HW1B-M322*		
	Maintained	1NO	HW1B-A310*		
		1NC	HW1B-A301*		
		1NO-1NC	HW1B-A311*		
		2NO	HW1B-A320*		
		2NC	HW1B-A302*		
		2NO-2NC	HW1B-A322*		
ø40mm Mushroom HW1B-M4 HW1B-A4 	Momentary	1NO	HW1B-M410*	B G R Y S W	
		1NC	HW1B-M401*		
		1NO-1NC	HW1B-M411*		
		2NO	HW1B-M420*		
		2NC	HW1B-M402*		
		2NO-2NC	HW1B-M422*		
	Maintained	1NO	HW1B-A410*		
		1NC	HW1B-A401*		
		1NO-1NC	HW1B-A411*		
		2NO	HW1B-A420*		
		2NC	HW1B-A402*		
		2NO-2NC	HW1B-A422*		
ø60mm Mushroom HW1B-M5 	Momentary	1NO	HW1B-M510*	B G R	
		1NC	HW1B-M501*		
		1NO-1NC	HW1B-M511*		
		2NO	HW1B-M520*		
		2NC	HW1B-M502*		
		2NO-2NC	HW1B-M522*		

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See **B-184** for other contact configurations and gold-plated silver contacts.
- Pushbuttons: M3.5 Terminal screws integrated terminal cover

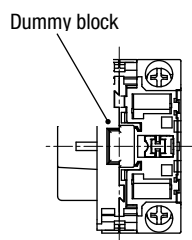
Square Flush / Square Flush Pushbuttons

Quantity: 1

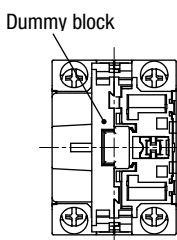
Shape	Operation	Contact	Part No.	Color Code	Dimensions (mm)
Square Flush HW2B-M1 HW2B-A1 	Momentary	1NO	HW2B-M110*	B G R Y S W	
		1NC	HW2B-M101*		
		1NO-1NC	HW2B-M111*		
		2NO	HW2B-M120*		
		2NC	HW2B-M102*		
	Maintained	2NO-2NC	HW2B-M122*		
		1NO	HW2B-A110*		
		1NC	HW2B-A101*		
		1NO-1NC	HW2B-A111*		
		2NO	HW2B-A120*		
Square Extended HW2B-M2 HW2B-A2 	Momentary	1NO	HW2B-M210*	B G R Y S W	
		1NC	HW2B-M201*		
		1NO-1NC	HW2B-M211*		
		2NO	HW2B-M220*		
		2NC	HW2B-M202*		
	Maintained	2NO-2NC	HW2B-M222*		
		1NO	HW2B-A210*		
		1NC	HW2B-A201*		
		1NO-1NC	HW2B-A211*		
		2NO	HW2B-A220*		
		2NC	HW2B-A202*		
		2NO-2NC	HW2B-A222*		

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See **B-184** for other contact configurations and gold-plated silver contacts.
- Pushbuttons: M3.5 Terminal screws

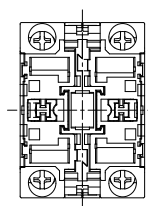
Bottom View



1NO contact block



3 contact blocks



2/4 contact blocks

- For 1NC contact, the contact block will mount on the opposite side.
- See **B-227** for wiring.
- Integrated terminal cover

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

HW

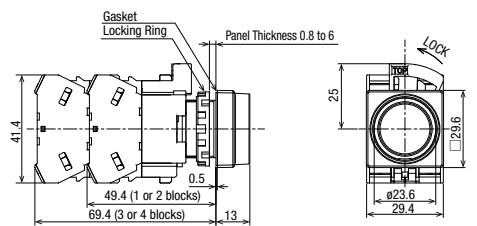
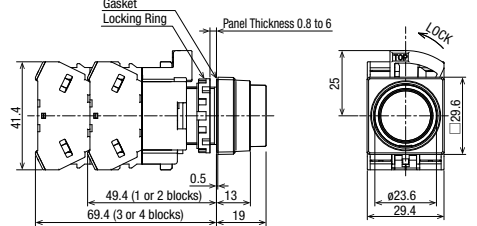
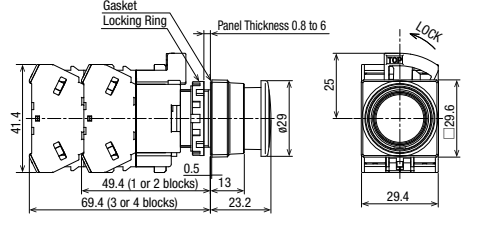
TW

YW

ø22 HW Series Pushbuttons

Round Flush / Round Extended /Mushroom with Square Bezel

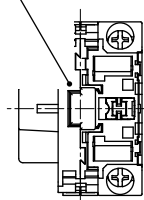
Quantity: 1

Shape	Operation	Contact	Part No.	Color Code	Dimensions (mm)
Round Flush with Square Bezel HW3B-M1 HW3B-A1 	Momentary	1NO	HW3B-M110*	B G R Y S W	
		1NC	HW3B-M101*		
		1NO-1NC	HW3B-M111*		
		2NO	HW3B-M120*		
		2NC	HW3B-M102*		
	Maintained	2NO-2NC	HW3B-M122*		
		1NO	HW3B-A110*		
		1NC	HW3B-A101*		
		1NO-1NC	HW3B-A111*		
		2NO	HW3B-A120*		
Round Extended with Square Bezel HW3B-M2 HW3B-A2 	Momentary	1NO	HW3B-M210*		
		1NC	HW3B-M201*		
		1NO-1NC	HW3B-M211*		
		2NO	HW3B-M220*		
		2NC	HW3B-M202*		
	Maintained	2NO-2NC	HW3B-M222*		
		1NO	HW3B-A210*		
		1NC	HW3B-A201*		
		1NO-1NC	HW3B-A211*		
		2NO	HW3B-A220*		
ø29mm Mushroom with Square Bezel HW3B-M3 HW3B-A3 	Momentary	1NO	HW3B-M310*		
		1NC	HW3B-M301*		
		1NO-1NC	HW3B-M311*		
		2NO	HW3B-M320*		
		2NC	HW3B-M302*		
	Maintained	2NO-2NC	HW3B-M322*		
		1NO	HW3B-A310*		
		1NC	HW3B-A301*		
		1NO-1NC	HW3B-A311*		
		2NO	HW3B-A320*		
		2NC	HW3B-A302*		
		2NO-2NC	HW3B-A322*		

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See **B-184** for other contact configurations and gold-plated silver contacts.
- Pushbuttons: M3.5 Terminal screws

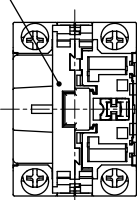
Bottom View

Dummy block

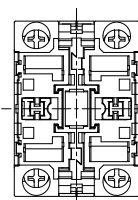


1NO contact block

Dummy block



3 contact blocks



2/4 contact blocks

- For 1NC contact, the contact block will mount on the opposite side.
- See **B-227** for wiring.
- Integrated terminal cover

Round Flush / Dome / Square Flush / Jumbo Dome Pilot Lights

Quantity: 1

Shape	Lamp	Operating Voltage	Part No.	Color Code
Round Flush (marking type) HW1P-1  24V AC/DC  With transformer (100/110V AC)	LED	24V AC/DC	HW1P-1Q4*	R G Y A S PW
		100/110V AC	HW1P-1H2*	
		200/220V AC	HW1P-1M2*	
Dome HW1P-2  (24V AC/DC)  With transformer (100/110V AC)	LED	24V AC/DC	HW1P-2Q4*	R G Y A S PW
		100/110V AC	HW1P-2H2*	
		200/220V AC	HW1P-2M2*	
Square Flush (marking type) HW2P-1  (24V AC/DC)  With transformer (100/110V AC)	LED	24V AC/DC	HW2P-1Q4*	R G Y A S PW
		100/110V AC	HW2P-1H2*	
		200/220V AC	HW2P-1M2*	
Jumbo Dome Pilot Light (*1) HW1P-5 	LED	24V AC/DC	HW1P-5Q4*	R G Y A S PW

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Pilot lights have an LED lamp installed unless otherwise specified.
- See **B-184** for other operating voltages.
- See **B-191** for bottom view.
- See **B-191** for how to specify units without LED lamps.

*1) Jumbo dome pilot lights contain an exclusive LED. See **B-182** and **B-221**.

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

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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

HW

TW

YW

ø22 HW Series Pilot Lights

Dimensions

All dimensions in mm.

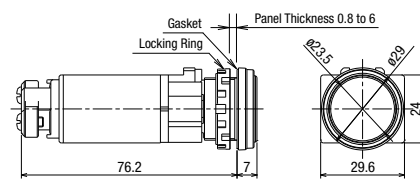
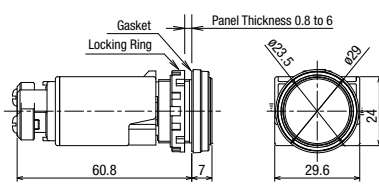
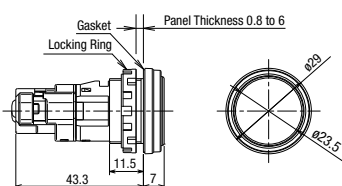
Pilot Lights

Round Flush Terminal screws: M3.5, integrated terminal cover

6, 12, 24V AC/DC, Without LED lamp

100/110V AC, 200/220V AC (240V AC maximum)

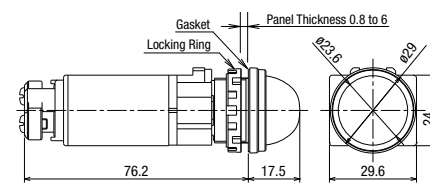
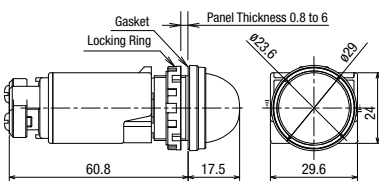
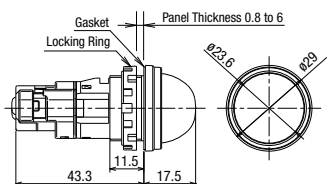
110V DC, 380V AC minimum

**Extended** Terminal screws: M3.5, integrated terminal cover

6, 12, 24V AC/DC, Without LED lamp

100/110V AC, 200/220V AC (240V AC maximum)

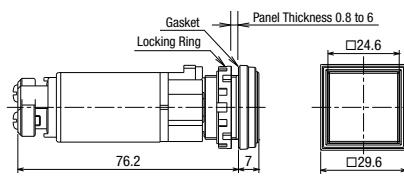
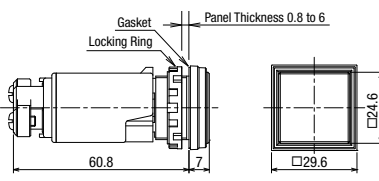
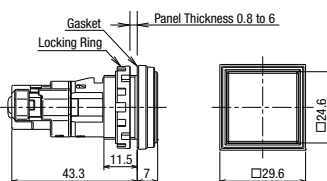
110V DC, 380V AC minimum

**Square Flush** Terminal screws: M3.5, integrated terminal cover

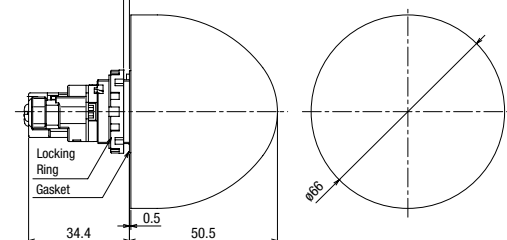
6, 12, 24V AC/DC, Without LED lamp

100/110V AC, 200/220V AC (240V AC maximum)

110V DC, 380V AC minimum

**Jumbo Dome Pilot Light** Terminal screws: M3.5, integrated terminal cover

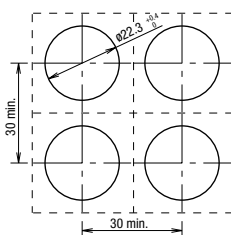
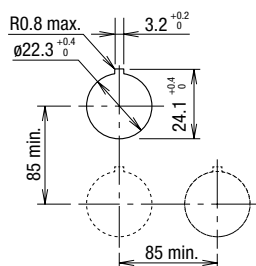
Panel Thickness 1 to 5



Panel Cut-Out

Mounting Centers
(Except jumbo dome)

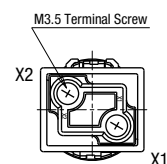
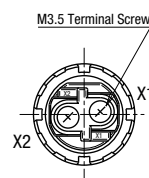
Close mounting on 30 mm centers

**Mounting Centers**
(Jumbo dome)

Pilot Light Bottom View

6, 12, 24V AC/DC
Without LED lamp

100/110V AC, 200/220V, 110V DC



When mounting 100/110V AC, 200/220V AC, 110V DC units on 30mm centers vertically and horizontally, keep the ambient temperature below 40°C.

Determine the minimum mounting centers in consideration of convenience for wiring.

- For DC-DC Converter types, terminal X1 is ⊕, X2 is ⊖.
- See **B-228** for wiring.