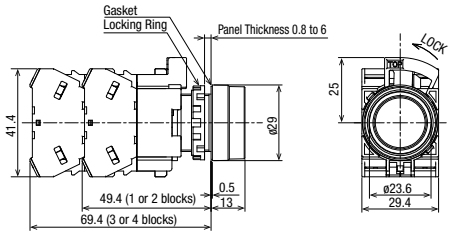
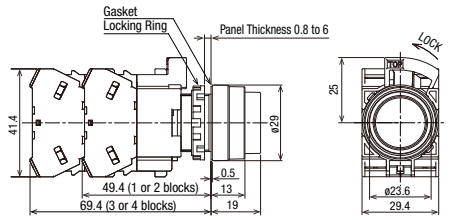
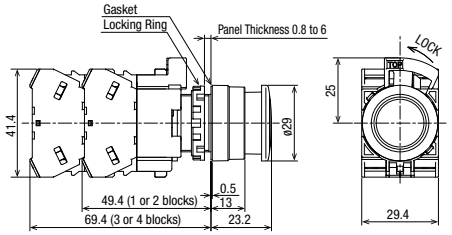
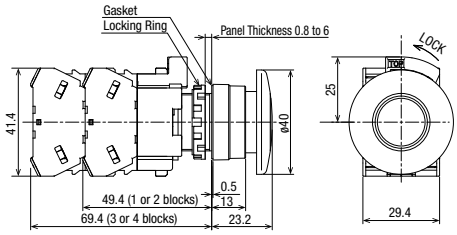
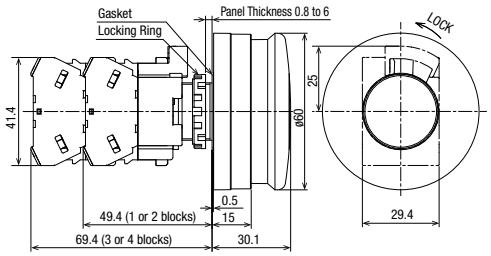
ø22 HW Series Pushbuttons

Flush / Extended / Mushroom Pushbuttons

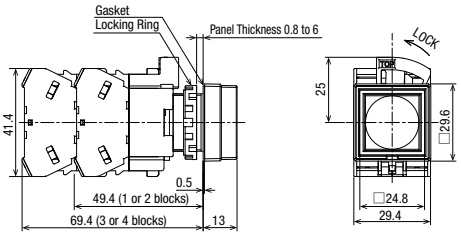
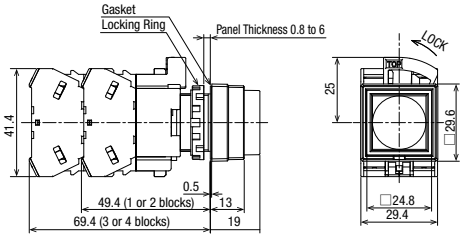
Quantity: 1

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

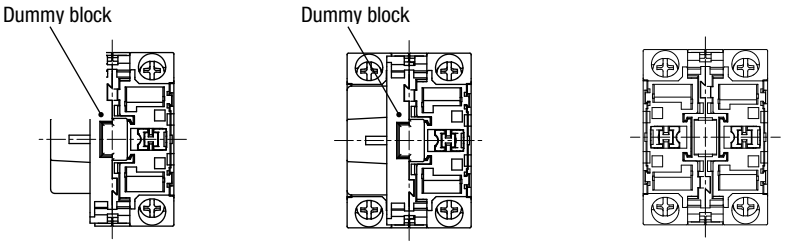
Square Flush / Square Flush Pushbuttons

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∗		
		2NO-2NC	HW2B-M122∗		
	Maintained	1NO	HW2B-A110∗		
		1NC	HW2B-A101∗		
		1NO-1NC	HW2B-A111∗		
		2NO	HW2B-A120∗		
		2NC	HW2B-A102∗		
		2NO-2NC	HW2B-A122∗		
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∗		
		2NO-2NC	HW2B-M222∗		
	Maintained	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

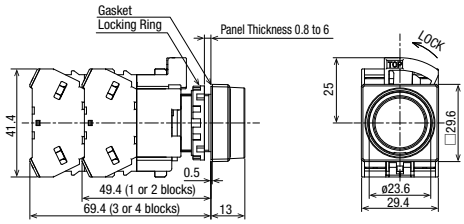
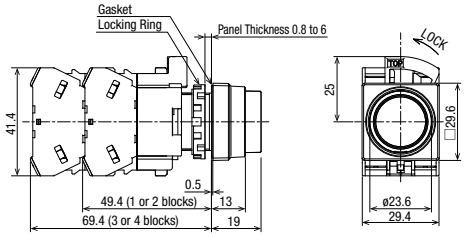
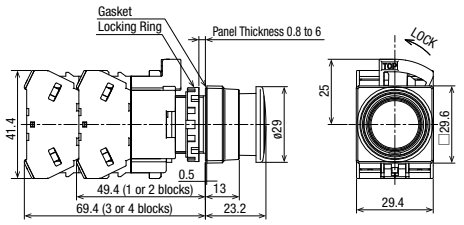


1NO contact block | 3 contact blocks | 2/4 contact blocks

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

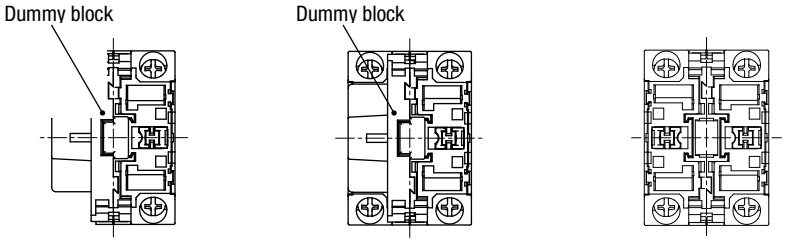
Round Flush / Round Extended /Mushroom with Square Bezel

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*		
		2NO-2NC	HW3B-M122*		
	Maintained	1NO	HW3B-A110*		
		1NC	HW3B-A101*		
		1NO-1NC	HW3B-A111*		
		2NO	HW3B-A120*		
		2NC	HW3B-A102*		
		2NO-2NC	HW3B-A122*		
Round Extended with Square Bezel HW3B-M2 HW3B-A2 	Momentary	1NO	HW3B-M210*	B G R Y S W	
		1NC	HW3B-M201*		
		1NO-1NC	HW3B-M211*		
		2NO	HW3B-M220*		
		2NC	HW3B-M202*		
		2NO-2NC	HW3B-M222*		
	Maintained	1NO	HW3B-A210*		
		1NC	HW3B-A201*		
		1NO-1NC	HW3B-A211*		
		2NO	HW3B-A220*		
		2NC	HW3B-A202*		
		2NO-2NC	HW3B-A222*		
ø29mm Mushroom with Square Bezel HW3B-M3 HW3B-A3 	Momentary	1NO	HW3B-M310*	B G R Y S W	
		1NC	HW3B-M301*		
		1NO-1NC	HW3B-M311*		
		2NO	HW3B-M320*		
		2NC	HW3B-M302*		
		2NO-2NC	HW3B-M322*		
	Maintained	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



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

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.

Dimensions

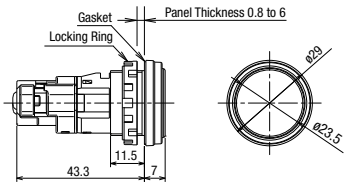
All dimensions in mm.

Pilot Lights

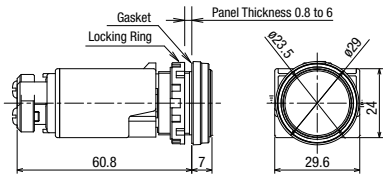
Round Flush

Terminal screws: M3.5, integrated terminal cover

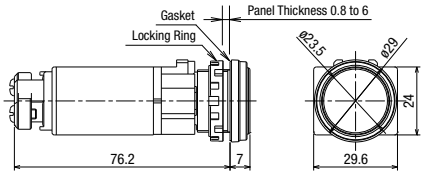
6, 12, 24V AC/DC, Without LED lamp



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



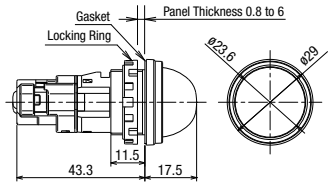
110V DC, 380V AC minumum



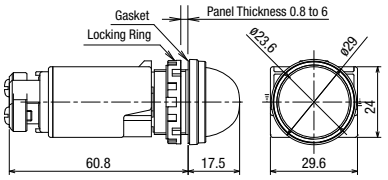
Extended

Terminal screws: M3.5, integrated terminal cover

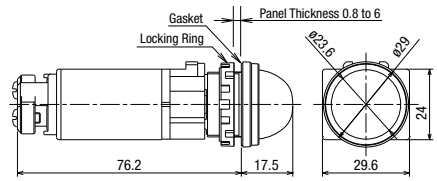
6, 12, 24V AC/DC, Without LED lamp



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



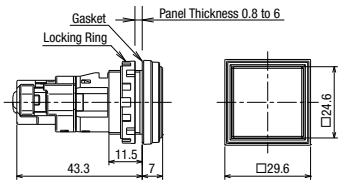
110V DC, 380V AC minimum



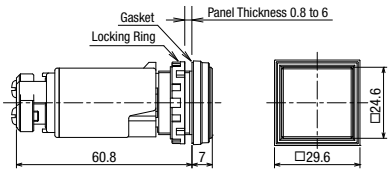
Square Flush

Terminal screws: M3.5, integrated terminal cover

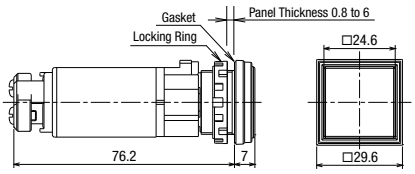
6, 12, 24V AC/DC, Without LED lamp



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

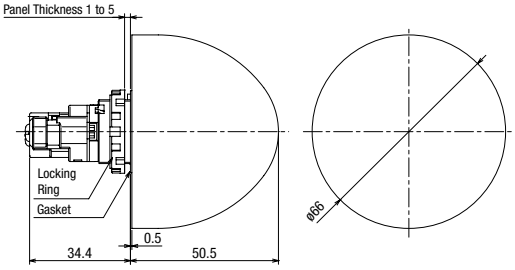


110V DC, 380V AC minimum



Jumbo Dome Pilot Light

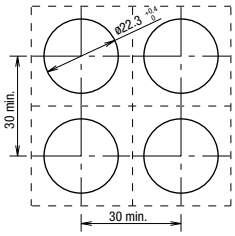
Terminal screws: M3.5, integrated terminal cover



Panel Cut-Out

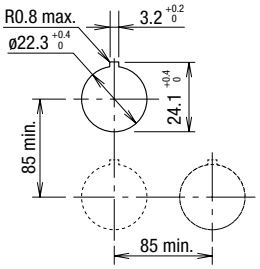
Mounting Centers
(Except jumbo dome)

Close mounting on 30 mm centers



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

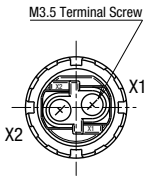
Mounting Centers
(Jumbo dome)



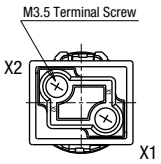
Determine the minimum mounting centers in consideration of convenience for wiring.

Pilot Light Bottom View

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



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



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

IDEC