

22.5mm Pushbuttons, Selectors and Indicators

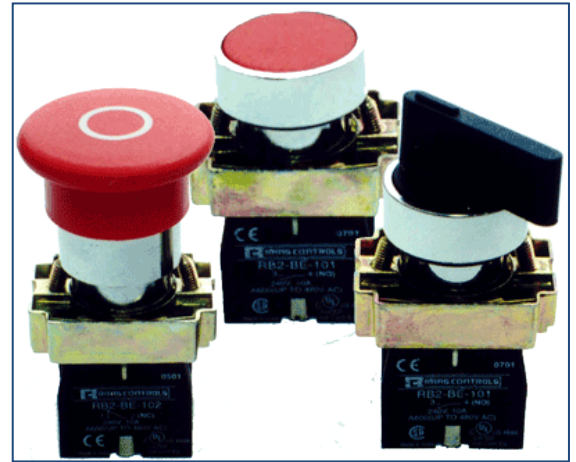
This traditional line of 22.5mm dia. control devices (pushbuttons, selector switches and pilot lights) from ITC was designed to provide safe operation and offer ease of assembly.

The main features include:

- Reduced footprint on the panel surface.
- Self-cleaning contacts.
- Intrinsic grounding of the actuator metal parts.
- Excellent flammability rating.
- Shrouded terminals.
- Robust construction.

The following products are included in this catalog:

- Pushbuttons (illuminated and non-illuminated).
- Lever selector switches (illuminated and non-illuminated).
- Key selector switches.
- Emergency Stop Switches (illuminated or non-illuminated), also known as E-stops or Mushroom pushbuttons.
- Pilot lights.
- Accessories, including nameplates, shrouds, empty pushbutton stations.



In general terms, a non-illuminated device includes an actuator, a mounting collar (or bracket), and a number of NO or NC contacts (1 to max. 6). An illuminated device includes an actuator, a collar equipped with a bulb holder (some models come with a light bulb), and a number of NO or NC contacts (from 1 to max. 4).

Actuators have chrome plated metal bezels. Pre-assembled actuators/collars (brackets) are also available. All devices described in this catalog can be mounted on metal plates 1 to 6 mm thick. Bulb holders accept Ba9s (bayonet) bulbs, voltages up to 220V, with bulb diameter max. 10mm. and max length 28mm. Contacts are double-break type, with self-wiping design. Gold plated contacts for low-voltage applications are also available. Contact elements and bulb holders have shrouded terminals with combined (slot/Philips) screws.

Mounting

Minimum distance between centers of adjacent devices is 30x40mm. However, the actual layout should be defined based on the application and the type of device used (e.g., a 60mm. dia. E-stop requires greater distance between centres, etc...). Actuators and pilot light heads mount on the collar (bracket) with a twist-lock-type fixing requiring no tools. The complete assembly locks into position on the panel by means of two pointed screws (M4) tightened from the rear. These screws should be tightened equally, to the point where they pierce through the paint on the panel, thus ensuring good grounding of the device.

General and technical characteristics:

Approvals	CSA C22-2 No. 14-95, UL508, EN60947 -5/1/2000, VDE 0660
Ingress protection	IP65 as per IEC529, NEMA 4X / 12 as per UL50
Ambient temperature	-25°C to +70°C (operation)
Mechanical life	1,000,000 operations (pushbuttons, selectors) - 300,000 operations (E-stops)
Frequency of operation max.	3600 op/hour
Contact Operation	Slow break, Self wiping (NO or NC). NC with Positive Opening Operation.
Rated thermal current	10A
Rated insulation voltage	500V
Terminal capacity	Min. 1 x 0.5mm ² , max 2 x 1.5mm ² or 1 x 2.5mm ²
Contact marking	NC: 1-2 NO: 3-4
Contact Electrical Rating	AC15: 24V/4A - 120V/3A - 220V/2A - DC13: 24V/0.5A - 110V/0.2A

Non-Illuminated Mushroom Actuators (order by Part No.):

Spring Return Mushroom Head (“E-Stop”) Actuator				Latching Mushroom Head (“E-Stop”) Actuator				
								
		Part No.					Part No.	
Action	Colour	Actuator only	Actuator & mounting collar	Action	Diameter	Colour	Actuator only	Actuator & mounting collar
Spring Return Φ40mm	Black	RB2-BC2	RB2-BC2-B	Twist Release	30mm	Black	RB2-BS42	RB2-BS42-B
	Green	RB2-BC3	RB2-BC3-B		30mm	Red	RB2-BS44	RB2-BS44-B
	Red	RB2-BC4	RB2-BC4-B		40mm	Black	RB2-BS52	RB2-BS52-B
	Yellow	RB2-BC5	RB2-BC5-B		40mm	Red	RB2-BS54	RB2-BS54-B
	Blue	RB2-BC6	RB2-BC6-B		60mm	Black	RB2-BS62	RB2-BS62-B
Spring Return Φ60mm	Black	RB2-BR2	RB2-BR2-B		Key Release	60mm	Red	RB2-BS64
	Green	RB2-BR3	RB2-BR3-B	40mm		Black	RB2-BS12	RB2-BS12-B
	Red	RB2-BR4	RB2-BR4-B	40mm		Red	RB2-BS14	RB2-BS14-B
	Yellow	RB2-BR5	RB2-BR5-B	Push-Pull	40mm	Black	RB2-BT2	RB2-BT2-B
	Blue	RB2-BR6	RB2-BR6-B		40mm	Red	RB2-BT4	RB2-BT4-B
					60mm	Black	RB2-BX2	RB2-BX2-B
				60mm	Red	RB2-BX4	RB2-BX4-B	

Information subject to change without notice

Illuminated Mushroom Actuators (order by Part No.):

Spring Return Illuminated Mushroom Head ("E-Stop") Actuator 					Latching Illuminated Mushroom Head ("E-Stop") Actuator 				
		Part No.					Part No.		
Action	Diameter	Colour	Actuator only	Actuator & Bulb-Holder Ba9s	Action	Diameter	Colour	Actuator only	Actuator & Bulb-Holder Ba9s
Spring Return	40mm	Red	RB2-BW44	RB2-BW44-B	Push-Pull	40mm	Red	RB2-BW64	RB2-BW64-B

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Twin Touch Switches (order by Part No.):

"Twin-Touch" Non-illuminated Actuator 				"Twin-Touch" Illuminated Actuator 			
		Part No.				Part No.	
Type	Colour	Actuator only	Actuator & mounting collar	Type	Colour	Actuator only	Actuator & Bulb Holder Ba9s
Flush	Green	RB2-BA87	RB2-BA87-B	Flush	Green	RB2-BW9	RB2-BW9-B
	Red				Red		
Projecting Red	Green	RB2-BA8425	RB2-BA8425-B	Projecting Red	Green	RB2-BW8465	RB2-BW8465-B
	Red				Red		

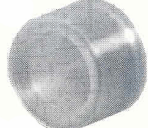
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Pilot Lights for INCANDESCENT, NEON or LED Bulbs (order by Part No.):

Pilot lights for Incandescent Bulbs 			Pilot Lights for Neon or LED Bulbs 		
	Part No.			Part No.	
Colour	Pilot light head only	Head & Bulb Holder Ba9s	Colour	Pilot light head only	Head & Bulb Holder Ba9s
White	RB2-BV01	RB2-BV01-B	White	-	-
Green	RB2-BV03	RB2-BV03-B	Green	RB2-BVL03	RB2-BVL03-B
Red	RB2-BV04	RB2-BV04-B	Red	RB2-BVL04	RB2-BVL04-B
Amber	RB2-BV05	RB2-BV05-B	Amber	RB2-BVL05	RB2-BVL05-B
Blue	RB2-BV06	RB2-BV06-B	Blue	RB2-BVL06	RB2-BVL06-B
Clear	RB2-BV07	RB2-BV07-B	Clear	-	-

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Accessories for Illuminated Pushbuttons and Pilot Lights (order by Part No.):

Lens sets for Incandescent Bulbs 			Silicon Rubber Boots for Illuminated Pushbuttons 		
	Part No.	Fits Pilot Lights		Part No.	Fits Buttons
Colour	Lens set		Colour	Pilot light head only	
White	RB2-BV001	RB2-BV01	Clear	RC-L	RB2-BW...
Green	RB2-BV003	RB2-BV03			
Red	RB2-BV004	RB2-BV04			
Amber	RB2-BV005	RB2-BV05			
Blue	RB2-BV006	RB2-BV06			
Clear	RB2-BV007	RB2-BV07			

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Accessories for Non-Illuminated Pushbuttons (order by Part No.):

Silicon Rubber Boots for Flush Pushbuttons 			Silicon Rubber Boots for Projecting Head Pushbuttons 		
	Part No.	Fits Pushbuttons		Part No.	Fits Buttons
Colour	Lens set		Colour	Pilot light head only	
Clear	RC-S	RB2-BA...	Black	RB2-BP002	RB2-BL2 or -BP2
			Green	RB2-BP003	RB2-BL3 or -BP3
			Red	RB2-BP004	RB2-BL4 or -BP4
			Amber	RB2-BP005	RB2-BL5 or -BP5
			Blue	RB2-BP006	RB2-BL6 or -BP6

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