

PUSH BUTTON

RDA5(PXB5)

Push Button Series

Compliance with Standards

Model	National Standard
RDA5	GB/T14048.5

Application Scope

The RDA5 push-button switch (hereinafter referred to as the button) is suitable for industrial control circuit switch 50/60 Hz, rated working voltage up to 400V and DC working voltage up to 230V. It is used for the control of electromagnetic starters, contactors, relays and other electrical circuits.

Normal Operating and Installation Conditions

- Ambient Air Temperature : -5~40°C, and the average temperature value within 24 hours does not exceed 35°C
- Altitude: ≤2000m.
- Air Humidity : When the maximum temperature is +40°C., the relative humidity of the air does not exceed 50%. At lower temperatures, a higher relative humidity is allowed. For example, it reaches 90% at 20°C. Special measures should be taken for condensation occasionally generated due to temperature changes.
- Pollution Degree: Pollution Degree 3.
- Installation Category: Installation Category II.

Selection Guide

RDA5	A	2	1	1	A5-101
Model	Derivative Type	Button Color	Contact Specification	Voltage with Light	Contact Base Module Code
Push Button Switch	A: Flat Button AZ: Flat Button with Self-locking W3: Flat Button with Light W3Z: Flat Button with Light and Self-locking. See Table 1	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+NC	1: 6V 2: 12V 3: 24V 4: 36V 5: 48V 6: 110V 7: DC220V 8: AC220V 9: AC380V	A5-101: 1NO A5-102: 1NC A5-103: 2NO A5-104: 2NC A5-105: 1NO+1NC

Example: RDA5-SS5. Its meaning: RDA5-Normally Open-Normally Closed Emergency Stop Button.
RDA5-D524 + A S105. Its meaning: RDA5- Normally Open and Three Normally Closed Black Three-position Self-reset Knob. Among them, "A S105" is the code for one normally open and one normally closed contact module.

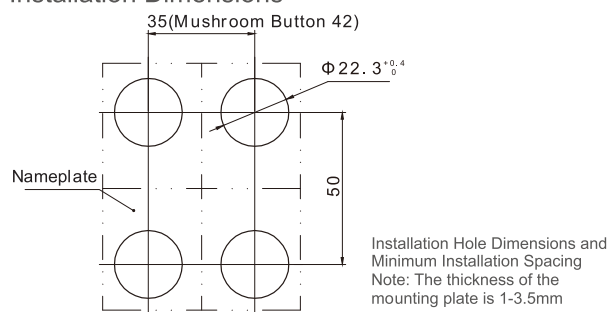
Table 1

Derivative Type	Meaning	Derivative Type	Meaning	Derivative Type	Meaning
A	Self-reset Flat Button	J2	Two-position Indexing Long-handle Knob	G0	Three-position Indexing Key Button , Key Temporarily Pullable at Each Position
AZ	Self-locking Flat Button	J4	Two-position Self-reset Long-handle Knob	G1	Three-position Indexing Key Button , Key Pulled out from Left
G	Self-reset Convex Button	J3	Three-position Indexing Long-handle Knob	G3	Three-position Indexing Key Button , Key Pulled out from Middle
GZ	Self-locking Convex Button	J5	Three-position Self-reset Long-handle Knob	G5	Three-position Indexing Key Button , Key Pulled out from Left and Right
C	Self-reset Mushroom Button	J7	Three-position Left Self-reset & Right Indexing Long-handle Knob	G7	Three-position Indexing Key Button , Key Pulled out from Middle
T	Self-locking Mushroom Button	W3	Self-reset Flat Button with Light	B	Double-key Self-reset Button
D2	Two-position Indexing Knob	W3Z	Self-locking Flat Button with Light	BD	Double-key Self-reset Button with Light
D4	Two-position Self-reset Knob	S5	Emergency Stop Button		
D3	Three-position Indexing Knob	G2	Two-position Indexing Key Button ,Key Pulled out from Left		
D5	Three-position self-reset Knob	G4	Two-position Indexing Key Button ,Key Pulled out from Right		
D7	Three-position Left self-reset & Right Indexing long-handle Knob	G6	Two-position Self-reset Key Button , Key Pulled out from Left		

Main Technical Parameters

Rated Working Voltage Ue	AC400V , DC230V
Conventional Free-air Heating Current Ith	10A
Rated Insulation Voltage Ui	500V
Use Category and Rated Working Current	AC-15: 400V/3A , DC-13: 230V/0.6A
Protection Grade	IP40
Electrical Life	≥100,000 times
Mechanical Life	Emergency stop button ≥300,000 times, others ≥1,000,000 times
Bead	Voltage-AC/DC: 6V, 12V, 24V, 36V, 48V, 110V, DC220V, AC: 220V, 380V

Installation Dimensions



Marking and Identification of Terminals

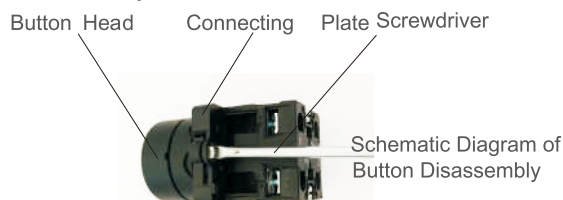
- ☐ Terminals are identified with two-digit numbers
 - The digit in the units place is the function digit;
 - The digit in the tens place is the sequence number.
- ☐ Function Digits

Function digits 1 and 2 are reused for breaking contact elements (also known as normally closed contacts), and function digits 3 and 4 are used for making contact elements (also known as normally open contacts).
- ☐ Sequence Numbers

Terminals belonging to the same contact element should be marked with the same sequence number
- ☐ Marking of Terminals for Illuminated Push-button Switches

The two terminals of the signal lamp should be marked X1 and X2

Disassembly of Button Head and Switch Base Connecting Plate

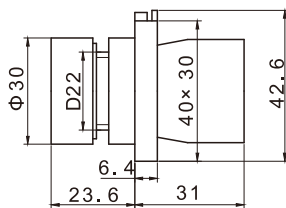


Insert a small flathead screwdriver or similar object into the arched space of the connecting plate. Use the lever principle to press down the screwdriver and pull out the button head at the same time.

Flat Button-Selection Rules

RDA5	A	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	A: Flat Button AZ: Flat Button with Self-locking	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

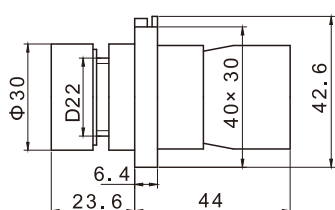
Outline Drawing and Dimensions



Order Model

Meaning

RDA5-A11	White Flat Button , 1 NO
RDA5-A12	White Flat Button , 1 NC
RDA5-A21	Black Flat Button , 1 NO
RDA5-A22	Black Flat Button , 1 NC
RDA5-A31	Green Flat Button , 1 NO
RDA5-A33	Green Flat Button , 2 NO



Order Model

Meaning

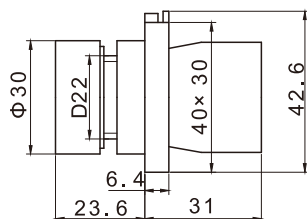
RDA5-AZ11	White Flat Button with Self-locking, 1 NO
RDA5-AZ12	White Flat Button with Self-locking, 1 NC
RDA5-AZ21	Black Flat Button with Self-locking, 1 NO
RDA5-AZ22	Black Flat Button with Self-locking, 1 NC
RDA5-AZ31	Green Flat Button with Self-locking, 1 NO
RDA5-AZ33	Green Flat Button with Self-locking, 2 NO

PUSH BUTTON

Flat Button-Selection Rules

RDA5	A	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	A: Flat Button AZ: Flat Button with Self-locking	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

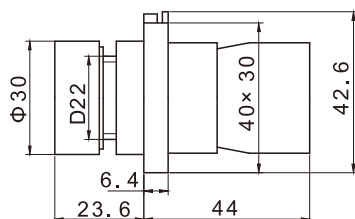
Outline Drawing and Dimensions



Order Model

Meaning

RDA5-A11	White Flat Button , 1 NO
RDA5-A12	White Flat Button , 1 NC
RDA5-A21	Black Flat Button , 1 NO
RDA5-A22	Black Flat Button , 1 NC
RDA5-A31	Green Flat Button , 1 NO
RDA5-A33	Green Flat Button , 2 NO



Order Model

Meaning

RDA5-AZ11	White Flat Button with Self-locking, 1 NO
RDA5-AZ12	White Flat Button with Self-locking, 1 NC
RDA5-AZ21	Black Flat Button with Self-locking, 1 NO
RDA5-AZ22	Black Flat Button with Self-locking, 1 NC
RDA5-AZ31	Green Flat Button with Self-locking, 1 NO
RDA5-AZ33	Green Flat Button with Self-locking, 2 NO

Mushroom Button-Selection Rules

RDA5	C	3	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	C: Self-reset Mushroom Button T: Self-locking Mushroom Button	3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

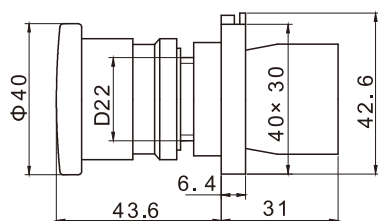
Outline Drawing and Dimensions



RDA5-C: Self-reset Mushroom Button



RDA5-T: Self-locking Mushroom Button



Order Model

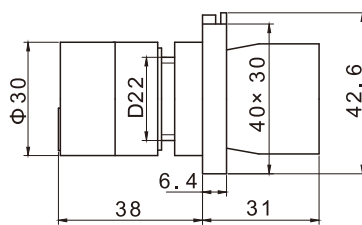
Meaning

RDA5-C31	Green Self-reset Mushroom Button , 1 NO
RDA5-C32	Green Self-reset Mushroom Button , 1 NC
RDA5-C43	Red Self-reset Mushroom Button , 2 NO
RDA5-T44	Red Self-locking Mushroom Button , 2 NC
RDA5-T55	Yellow Self-locking Mushroom Button , 1NO1NC
RDA5-T61	Blue Self-locking Mushroom Button , 1 NO

Knob-Selection Rules

RDA5	D2	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	D2:Two-position Indexing Knob D4:Two-position Self-reset Knob D3:Three- position Indexing Knob D5:Three- position Self-reset Knob D7:Three-position Left Self-reset & Right Indexing Knob	2: Black 3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions



Order Model

Meaning

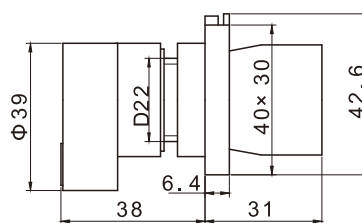
RDA5-D221
RDA5-D222
RDA5-D433
RDA5-D334
RDA5-D545
RDA5-D741

Black Two-position Indexing Knob, 1NO
Black Two-position Indexing Knob, 1NC
Green Two-position Self-reset Knob, 2NO
Green Three-position Indexing Knob, 2NC
Red Three-position Self-reset Knob, 1NO1NC
Red Three-position Left Self-reset & Right Indexing Knob, 1NO

Long-Handle Knob-Selection Rules

RDA5	J2	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	J2:Two-position Indexing Long-Handle Knob J4:Two-position Self-reset Long-Handle Knob J3:Three-position Indexing Long-Handle Knob J5:Three-position Self-reset Long-Handle Knob J7:Three-position Left Self-reset & Right Indexing Long-Handle Knob	2: Black 3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions



Order Model

Meaning

RDA5-J221
RDA5-J222
RDA5-J421
RDA5-J331
RDA5-J532
RDA5-J741

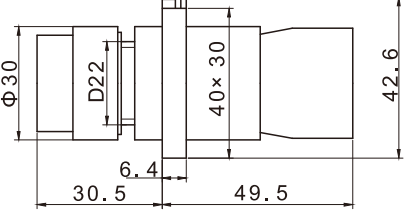
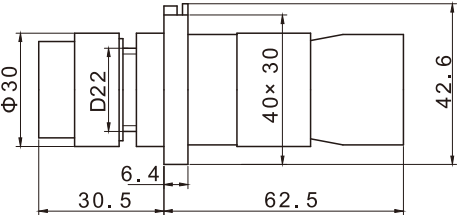
Black Two-position Indexing Long-Handle Knob, 1NO
Black Two-position Indexing Long-Handle Knob, 1NC
Black Two-position Self-reset Long-Handle Knob, 1NO
Green Three-position Indexing Long-Handle Knob, 1NO
Green Three-position Self-reset Long-Handle Knob, 1NC
Red Three-position Left Self-reset & Right Indexing Long-Handle Knob, 1NO

PUSH BUTTON

Illuminated Flat Button-Selection Rules

RDA5	W3	2	1	1
Model	Derivative Type	Button Color	Contact Specification	Voltage with Light
Push Button Switch	W3: Self-reset Illuminated Flat Button W3Z: Self-locking Illuminated Flat Button	1: White	1: 1NO	1: 6V
		3: Green	2: 1NC	2: 16V
		4: Red	3: 2NO	3: 24V
		5: Yellow	4: 2NC	4: 36V
		6: Blue	5: 1NO+1NC	5: 48V
				6: 110V
				7: DC220V
				8: AC220V
				9: AC380V

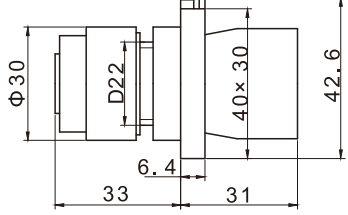
Outline Drawing and Dimensions

		Order Model	Meaning
		RDA5-W3131	White Self- reset Illuminated Flat Button , 6V, 2 NO
		RDA5-W3122	White Self- reset Illuminated Flat Button , 16V, 1 NC
		RDA5-W3513	Yellow Self- reset Illuminated Flat Button , 24V, 1 NO
		RDA5-W3314	Green Self- reset Illuminated Flat Button , 36V, 1 NO
		RDA5-W3325	Green Self- reset Illuminated Flat Button , 48V, 1 NC
		RDA5-W3426	Red Self- reset Illuminated Flat Button , 110V, 1 NC
		Order Model	Meaning
		RDA5-W3Z132	White Self- locking Illuminated Flat Button , 16V, 2 NO
		RDA5-W3Z125	White Self- locking Illuminated Flat Button , 48V, 1 NC
		RDA5-W3Z516	Yellow Self- locking Illuminated Flat Button , 110V, 1 NO
		RDA5-W3Z318	Green Self- locking Illuminated Flat Button , AC220V, 1 NO
		RDA5-W3Z329	Green Self- locking Illuminated Flat Button , AC380V, 1 NC
		RDA5-W3Z423	Red Self- locking Illuminated Flat Button , 24V, 1 NC

Key Button-Selection Rules

RDA5	Y2	1
Model	Derivative Type	Contact Specification
Push Button Switch	Y2: Two- position Indexing Key Button , Key Pulled out from L eft	1: 6V
	Y4: Two- position Indexing Key Button , Key Pulled out from L eft and Right	2: 16V
	Y6: Two- position Self- reset Key Button , Key Pulled out from L eft	3: 24V
	Y0: Three- position Indexing Key Button , Key Pullable at Each Position	4: 36V
	Y1: Three- position Indexing Key Button , Key Pulled out from L eft	5: 48V
	Y3: Three- position Indexing Key Button , Key Pulled out from Middle	6: 110V
	Y5: Three- position Indexing Key Button , Key Pulled out from L eft and Right	7: DC220V
	Y7: Three- position Self- reset Key Button , Key Pulled out from Middle	8: AC220V
		9: AC380V

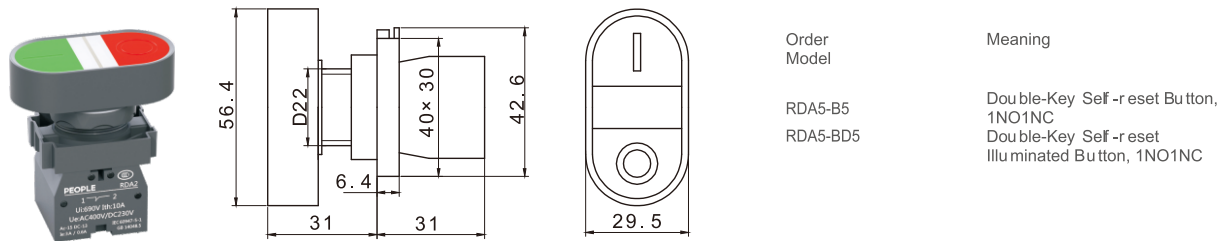
Outline Drawing and Dimensions

		Order Model	Meaning
		RDA5-Y21	Two- position Indexing Key Button , Key Pulled out from Left , 1 NO
		RDA5-Y42	Two- position Indexing Key Button , Key Pulled out from Left and Right, 1 NC
		RDA5-Y61	Two- position Self- reset Key Button , Key Pulled out from Left, 1 NO
		RDA5-Y03	Three- position Indexing Key Button , Key Pullable at Each Position , 2 NO
		RDA5-Y14	Three- position Indexing Key Button , Key Pulled out from Left, 2 NC
		RDA5-Y35	Three- position Indexing Key Button , Key Pulled out from Middle, 1 NO1NC

Double-Key Button-Selection Rules

RDA5	B	1
Model	Derivative Type	Contact Specification
Push Button Switch	B: Double - Key Self-reset Button BD: Double - Key Self-reset Illuminated	5: 1 NO+1NC

Outline Drawing and Dimensions



Emergency Stop Button-Selection Rules

RDA5	S5	1
Model	Derivative Type	Contact Specification
Push Button Switch	S5: Emergency Stop Button	2: 1NC 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions

