



LAY5 SERIES



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LAY5

Push button Series

www.xindali.com



LAY5
Series

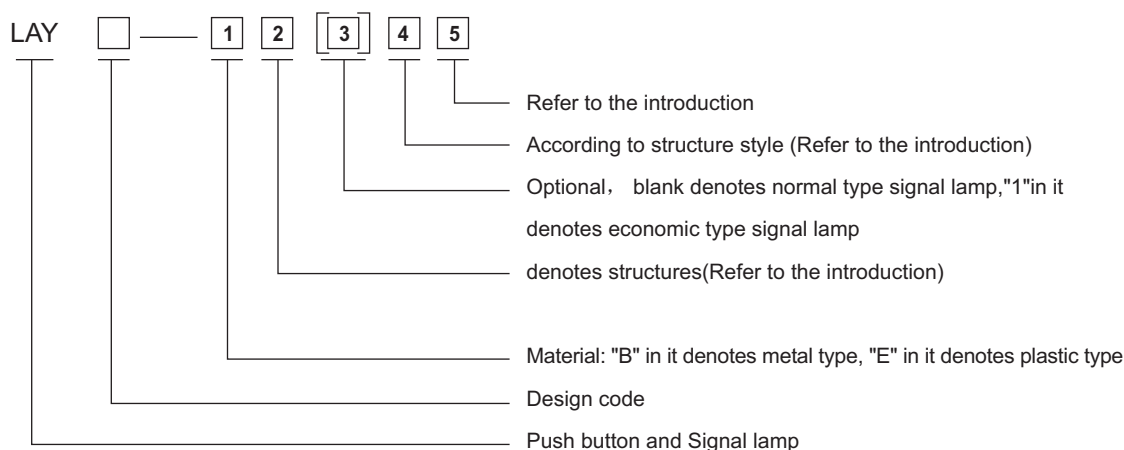
Product instruction

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The push button series are used in controlling circuit of AC voltage up to 660V/AC50Hz or 60Hz, and DC voltage below 400V. It is used for controlling signal and interlocking purposes. The main body of the push buttons adopts zinc alloy and high-grade anti-flam plastic. The contact adopts special silver alloy in order to enjoy the benefit of high anti-electrical erosion. The signal lamp series are suitable for electrical appliances circuit of AC voltage up to 380V/50Hz, and DC voltage below 380V. It is ideal for using as indicating signals, warning signals, emergency signals, etc. Our products comply with GB/T14048.1 and IEC60947-5-1, all products are CE, ISO9001, ROHS and UL certified.

Model and meanings

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1) Denote middle base material, "B" in it means metal type, "E" in it means plastic type

2) Letters denote structure type:

A: Flush button	C: Φ 40Mushroom button	R: Φ 60Mushroom button	D: Standard handle knob
J: Long handle knob	G: Key switch	L: Convex button	P: Button with water-proof cover
S: Turn to release type emergency button		T: Push and pull type emergency button	
W: Button with lamp	K: Switch with lamp	H: Auto-locking economic button	V: Indicator lamp

3) Optional, blank denotes normal type signal lamp, "1" in it denotes economic type signal lamp

4) The number after U.A.P.C.R.T.L. means color (refer to table a)

The number after D.J.G.K. means the method of rotary switch (refer to table b)

The number after V means the voltage and middle base structure (refer to table c)

The number after S means mushroom head: 4 means Φ 30; 5 means Φ 40; 6 means Φ 60

The number after W means the style of head (refer to table d)

5) The code of contact type: (the number after S means color)

1 means 1NO 2 means 1NC 3 means 2NO 4 means 2NC 5 means 1NO+1NC



LAY5

Push button Series

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a. Color code

1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue 7: Clear

b. Number code denotes all rotary knob

2 means 2-Position stay put 3 means 3-Position stay put 4 means 2-Position spring return

5 means 3-Position spring return

c. Voltage Code

3 means 110V~130V Transformer; 4 means 220V~240V Transformer; 5 means 380V Transformer;

6 means 220V~240V direct type; 7 means 220V~240V resistant type; 95 means 415V Transformer

d. This position is defined as follows:

1 means diffusion button with raised smoothness cover

3 means diffusion button with flush smoothness cover

Work environment

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1. Surrounding temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$;

2. Air relative humidity: $\leq 85\%$.

3. It can be normally work under following condition:

Vibration frequency is $2 \sim 80\text{Hz}$ and acceleration speed is 0.7g/h ;

4. Pollution grade is III, installation sort is III, protection grade is up to IP65.

5. Altitude: $\leq 2000\text{m}$

Note:

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PG denotes pure green; PW denotes pure white

Main technical parameter

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Basic technical parameter of button			Basic technical parameter of signal lamp	
Rated insulation voltage	AC 600V (50Hz/60Hz)		Insulation resistance	$\geq 50\text{M}\Omega$
Conventional heating current	10A		Contact resistance	$\leq 25\text{Min}\Omega$
Insulation resistance	$\geq 50\text{M}\Omega$		Pf withstand voltage	AC 2.5KV/min
Contact resistance	$\leq 25\text{Min}\Omega$		Voltage wave	$\pm 20\%$
Mechanical life	100×10^4 (Pushbutton)	50×10^4 Selector switch Key switches	Brightness	60cd/m^2
Electrical life	500×10^4 (Pushbutton)	25×10^4 Selector switch Key switches	Continuous working life	$10 \times 10^4\text{h}$

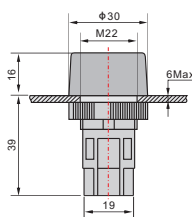
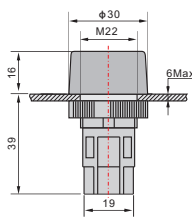
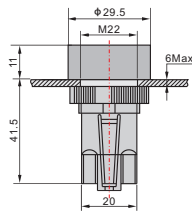
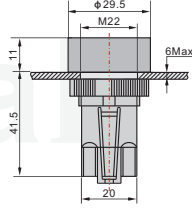
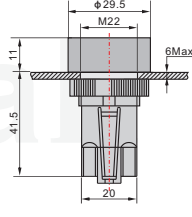
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Push button Series

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Series

Push button	Description	Contact	Circuit	Color	Type	Contour
 LAY5-EV444	For use with incandescent bulb (included) BA9s base fitting Neon (BA9S)	230V 50~60Hz 220~240V bulb		 White	LAY5-EV441	
				 Green	LAY5-EV443	
				 Red	LAY5-EV444	
				 Yellow	LAY5-EV445	
				 Pure Blue	LAY5-EV446	
 LAY5-EV175	With resistance Neon (BA9S) For use with incandescent bulb(included) BA9S base LED	230V 50~60Hz 220~240V bulb AC220~240V AC/DC24V		 Green	LAY5-EV173	
				 Red	LAY5-EV174	
				 Yellow	LAY5-EV175	
				 Green/PG	LAY5-BVM163	
				 Red	LAY5-BVM164	
 LAY5-EA131	Pushbutton Spring return	N/O		 Black	LAY5-EA121	
				 Green	LAY5-EA131	
				 Green Start	LAY5-EA131S	
				 Yellow	LAY5-EA151	
				 Blue	LAY5-EA161	
 LAY5-EA145	Pushbutton Spring return	N/C		 Red	LAY5-EA142	
				 Red Stop	LAY5-EA142S	
				 Black	LAY5-EA125	
				 Green	LAY5-EA135	
				 Red	LAY5-EA145	
 LAY5-EA155	Pushbutton Spring return	N/O+N/C		 Yellow	LAY5-EA155	

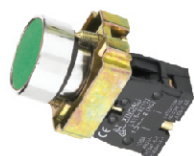


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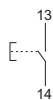
Push button	Description	Contact	Circuit	Color	Sign Type	Contour
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LAY5-BA31

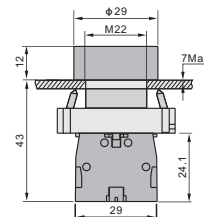
Flush button
Spring return

N/O



White
Black
Green
Yellow
Blue

LAY5-BA11
LAY5-BA21
LAY5-BA31
LAY5-BA51
LAY5-BA61

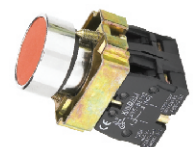


N/C



Red

LAY5-BA42



LAY5-BA45

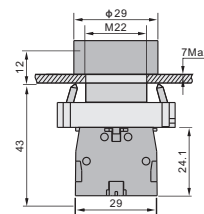
Flush button
Spring return

N/O+N/C



Black
Green
Yellow
Blue

LAY5-BA25
LAY5-BA35
LAY5-BA55
LAY5-BA65

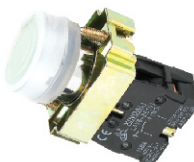


N/O+N/C



Red

LAY5-BA45



LAY5-BP31

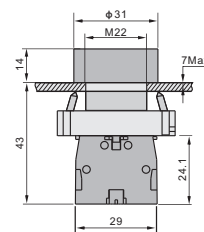
Flush button
(with water-proof cover)
Unmarked
IP65

N/O



White
Black
Green
Yellow
Blue

LAY5-BP11
LAY5-BP21
LAY5-BP31
LAY5-BP51
LAY5-BP61

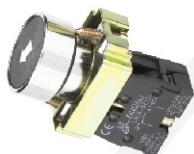


N/C



Red

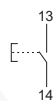
LAY5-BP42



LAY5-BA3351

Flush button
Spring return
Marked

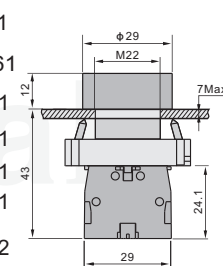
N/O



Green
White
Black
Green
Black

I
II
↑ or ↓
↑ or ↓
start
start

LAY5-BA3311
LAY5-BA3361
LAY5-BA3341
LAY5-BA3351
LAY5-BA5331
LAY5-BA5321



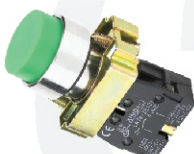
N/C



Red

stop

LAY5-BA4322
LAY5-BA4342



LAY5-BL31

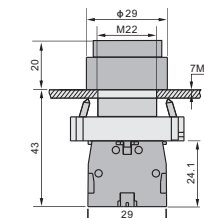
Convex button
Spring return

N/O

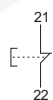


Black
Green
Yellow
Blue

LAY5-BL21
LAY5-BL31
LAY5-BL51
LAY5-BL61

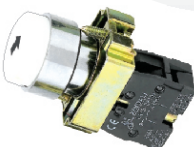


N/C



Red

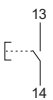
LAY5-BL42



LAY5-BL3341

Convex button
Spring return
Marked

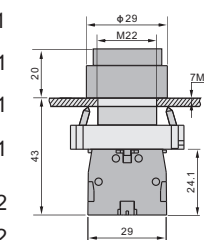
N/O



Green
Green
White
Black

I
II
↑ or ↓
↑ or ↓

LAY5-BL3311
LAY5-BL3361
LAY5-BL3341
LAY5-BL3351



N/C



Red

stop

LAY5-BL4322
LAY5-BL4342

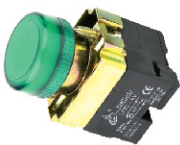
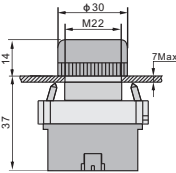
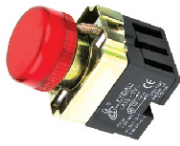
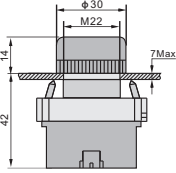
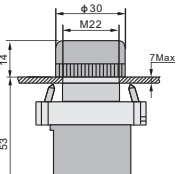
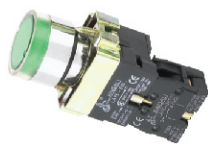
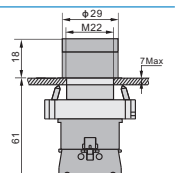
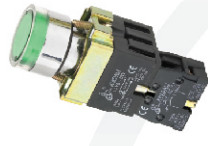
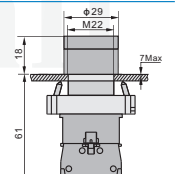
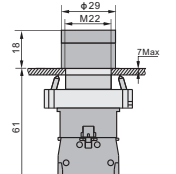
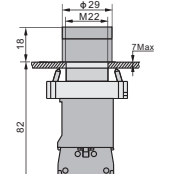
LAY5

Push button Series

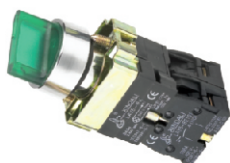
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Push button	Description	Contact	Circuit	Color	Type	Contour
 LAY5-BV63	Direct bulb included BA9s base fitting Neon (BA9S) LED	130V 220~240V 50~60Hz		White/PW	LAY5-BV61	
				Green/PG	LAY5-BV63	
				Red	LAY5-BV64	
				Yellow	LAY5-BV65	
				Pure Blue	LAY5-BV66	
 LAY5-BV74	Via integral resistance Ba9s bulb supplied Neon (BA9S) LED	130V 220~240V 50~60Hz		White	LAY5-BV71	
				Green	LAY5-BV73	
				Red	LAY5-BV74	
				Yellow	LAY5-BV75	
				Pure Blue	LAY5-BV76	
 LAY5-BV45	Via integral transformer 1.2VA Ba9s, bulb supplied Neon (BA9S) LED	220~240V 50Hz		White	LAY5-BV41	
				Green	LAY5-BV43	
				Red	LAY5-BV44	
				Yellow	LAY5-BV45	
				Blue	LAY5-BV46	
 LAY5-BW3361	Direct bulb supplied Neon (BA9S) LED	N/O 220~240V		White/PW	LAY5-BW3161	
				Green/PG	LAY5-BW3361	
				Yellow	LAY5-BW3561	
				Pure Blue	LAY5-BW3661	
				Red	LAY5-BW3462	
 LAY5-BW3371	Via integral resistance Ba9s, bulb supplied Neon (BA9S) LED	N/O 220V 250V		White	LAY5-BW3171	
				Green	LAY5-BW3371	
				Yellow	LAY5-BW3571	
				Pure Blue	LAY5-BW3671	
				Red	LAY5-BW3472	
 LAY5-BPW3361	Direct bulb supplied Neon (BA9S) LED (with water-proof cover) IP65	N/O 220~240V		White/PW	LAY5-BPW3161	
				Green/PG	LAY5-BPW3171	
				Yellow	LAY5-BPW3561	
				Pure Blue	LAY5-BPW3661	
				Red	LAY5-BPW3462	
 LAY5-BW3432	Via integral transformer 1.2VA Ba9s, bulb supplied Neon (BA9S) LED	N/O 110~130V/50Hz		White	LAY5-BW3131	
				Green	LAY5-BW3331	
				Yellow	LAY5-BW3531	
				Blue	LAY5-BW3631	
				Red	LAY5-BW3432	

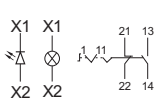
Push button	Description	Contact	Circuit	Color	Type	Contour
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LAY5-BK2365

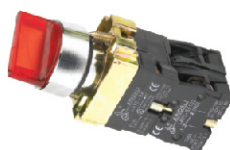
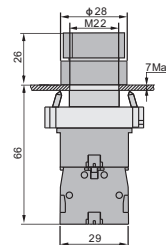
2 Position stay put
Standard handle
Direct supply
220/240V BA9s bulb
Neon (BA9S)
LED

N/O
+
N/C



Green/PG
Yellow
Pure Blue
White/PW
Red

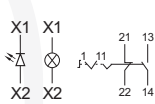
LAY5-BK2365
LAY5-BK2565
LAY5-BK2665
LAY5-BK2765
LAY5-BK2465



LAY5-BK3465

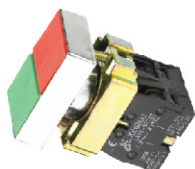
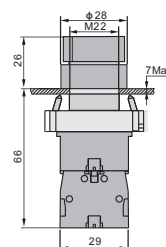
3 Position
stay put
Standard handle
Direct supply
220/240V BA9s bulb
Neon (BA9S)
LED

N/O
+
N/C



Green/PG
Yellow
Pure Blue
White/PW
Red

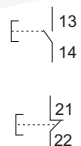
LAY5-BK3365
LAY5-BK3565
LAY5-BK3665
LAY5-BK3765
LAY5-BK3465



LAY5-BL8325

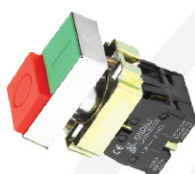
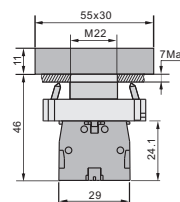
Without pilot light
1 flush green button
1 flush red button
IP40

N/O
+
N/C



Green
Red

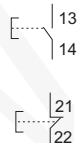
LAY5-BL8325



LAY5-BL8425

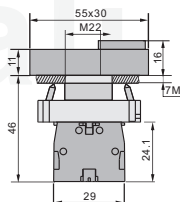
Without pilot light
1 flush green button
1 convex red button
marked IP40

N/O
+
N/C



Green
Red

LAY5-BL8425



LAY5-BL9325

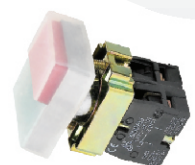
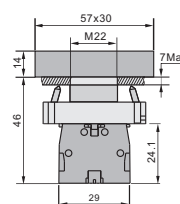
Without pilot light
1 flush green button
1 flush red button
(with water-proof cover)
Unmarked IP65

N/O
+
N/C



White
Green
Red

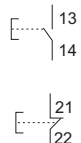
LAY5-BL9325



LAY5-BL9425

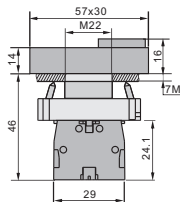
Without pilot light
1 flush green button
1 convex red button
(with water-proof cover)
marked IP65

N/O
+
N/C



White
Green
Red

LAY5-BL9425





LAY5

Push button Series

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Parts Description Color Sign Type



LAY5-BA3

Flush
button
head

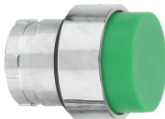
Black	LAY5-BA2
Green	LAY5-BA3
Red	LAY5-BA4
Yellow	LAY5-BA5
Blue	LAY5-BA6



LAY5-BA432

Flush
button
head
marked

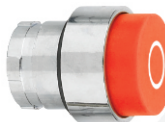
Green	LAY5-BA331
Green	LAY5-BA336
White	LAY5-BA334
Black	LAY5-BA335
Red	LAY5-BA432
Red stop	LAY5-BA434
Green start	LAY5-BA533



LAY5-BL3

Convex
button
head

Black	LAY5-BL2
Green	LAY5-BL3
Red	LAY5-BL4
Yellow	LAY5-BL5
Blue	LAY5-BL6



LAY5-BL432

Convex
button
head
marked

Green	LAY5-BL331
Green	LAY5-BL336
White	LAY5-BL334
Black	LAY5-BL335
Red	LAY5-BL432
Red stop	LAY5-BL434



LAY5-BP3

Flush
button
head
(with water-
proof cover)
Un marked

Black	LAY5-BP2
Green	LAY5-BP3
Red	LAY5-BP4
Yellow	LAY5-BP5
Blue	LAY5-BP6

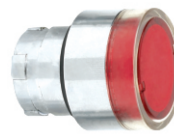


LAY5-BV05

Pilot light
head

White	LAY5-BV01
Green	LAY5-BV03
Red	LAY5-BV04
Yellow	LAY5-BV05
Blue	LAY5-BV06

Parts Description Color Type



LAY5-BW34

Pilot
light head
with shorter
transparent
protecting
cover

Green	LAY5-BW13
Red	LAY5-BW14
Yellow	LAY5-BW15
Blue	LAY5-BW16
Green	LAY5-BW33
Red	LAY5-BW34
Yellow	LAY5-BW35
Blue	LAY5-BW36



LAY5-BK23

Selector switch
head with lamp
2-positions
stay put

Green	LAY5-BK23
Red	LAY5-BK24
Yellow	LAY5-BK25



LAY5-BK34

Selector switch
head with lamp
3-positions
stay put

Green	LAY5-BK33
Red	LAY5-BK34
Yellow	LAY5-BK35



LAY5-BD2

Standard handle
Selector switch head
2-positions
stay put
3-positions
stay put
2-positions
spring return
3-positions
Spring Return

Black	LAY5-BD2
	LAY5-BD3
	LAY5-BD4
	LAY5-BD5



LAY5-BJ2

Long handle
Selector switch head
2-positions
stay put
3-positions
stay put
2-positions
spring return
3-positions
Spring Return

Black	LAY5-BJ2
	LAY5-BJ3
	LAY5-BJ4
	LAY5-BJ5



LAY5-BG2

Key switch head
2-positions
stay put
3-positions
stay put
2-positions
spring return
3-positions
Spring Return

	LAY5-BG2
	LAY5-BG3
	LAY5-BG4
	LAY5-BG5



LAY5

Push button Series

www.xindali.com

Parts	Description	Contact	Circuit	Color	Type	Contour
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LAY5-BE101 LAY5-BE102

Contact element

N/O



Green

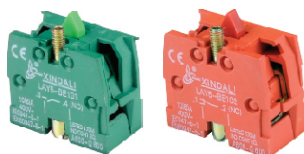
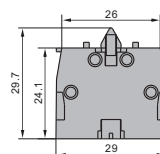
LAY5-BE101

N/C



Red

LAY5-BE102



LAY5-BE101 LAY5-BE102

Contact element with color

N/O



Green

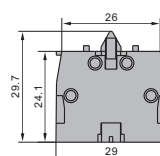
LAY5-BE101

N/C



Red

LAY5-BE102



LAY5-EZ101

Plastic bracket + contact element

N/O



Green

LAY5-EZ101

N/O+N/O



Green

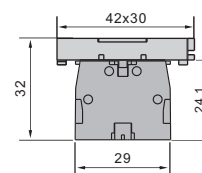
LAY5-EZ103

N/O+N/C



Red

LAY5-EZ105



LAY5-EZ102

N/C



Red

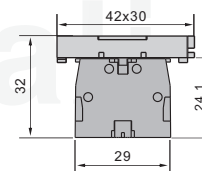
LAY5-EZ102

N/C+N/C



Red

LAY5-EZ104



LAY5-BZ101

Metal bracket + contact element

N/O



Green

LAY5-BZ101

N/O+N/O



Green

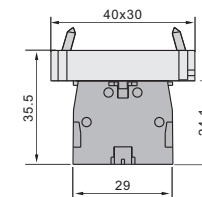
LAY5-BZ103

N/O+N/C



Red

LAY5-BZ105



LAY5-BZ102

N/C



Red

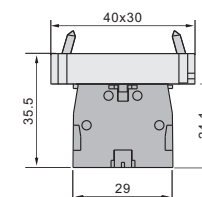
LAY5-BZ102

N/C+N/C



Red

LAY5-BZ104





Description Scheme	Marking	Marking on on legend push button	Type
1 green flush Pushbutton spring return	Stop	—	LAY5-B101H29
	—		LAY5-B102
	—	Stop	LAY5-B103
	—	—	LAY5-B101



Description Scheme	Marking	Marking on on legend push button	Type
1 green flush Pushbutton spring return	Stop	—	LAY5-B111H29
	—	Stop	LAY5-B114
	—	Stop	LAY5-B116
	—	—	



Description Scheme	Marking	Marking on on legend push button	Type
1 red Projectint Pushbutton spring return	N/C	— ○	LAY5-B112



Description Scheme	Marking	Marking on on legend push button	Type
1 red Mushroom Head Pushbutton 40mm spring return	N/C	Emergency dtop —	LAY5-B164H29
		— —	LAY5-B164



Description Scheme	Marking	Marking on on legend push button	Type
1 red Mushroom Head Pushbutton 40mm latching turn to release	N/C	● Red	LAY5-J174
		● Red	LAY5-J174H29



Description Scheme	Marking	Marking on on legend push button	Type
1 red Mushroom Head Pushbutton 40mm latching Key Release (Key no 445)	N/C	● Red	LAY5-J184
		● Red	LAY5-J188H29



Description Scheme	Marking	Marking on on legend push button	Type
1 selector Switch 2-position stay put standard black handle	N/O	Stop start	LAY5-B132H29
		○	LAY5-B134



Description Scheme	Marking	Marking on on legend push button	Type
1 selector Switch key Operated (Ronis key no445)		Stop start	LAY5-B142H29
		Stop start	LAY5-B142
2-position stay put key withdraw from left position			



Description Scheme	Marking	Marking on on legend push button	Type
2 spring Return push Button 1flush green 1flush red	N/O	Stop start	LAY5-B211H29
	+	— ○	LAY5-B213
	N/C	— Stop start	LAY5-B215



Description Scheme	Marking	Marking on on legend push button	Type
2 spring Return Pushbuttons 1 flush with (black arrow) 1 flush black (white arrow)	N/O	— ① ②	LAY5-B222
	+	— ① ②	LAY5-B223
	N/C	— ① ②	LAY5-B223



Description Scheme	Marking	Marking on on legend push button	Type
1 red pilot light, Dict supplied ≤130V Bulb not supplied+	Stop Start	—	LAY5-B361
2 spring return Pushbuttons	—	○ 	LAY5-B363
1 flush green 1 flush red	—	Stop Start	LAY5-B366



Description Scheme	Marking	Marking on on legend push button	Type
1 red pilot light, 220/250V supply direct through resistor BA9s-130V bulb supplied	Stop Start	—	LAY5-B371H29
2 spring return Pushbuttons	—	○ 	LAY5-B373
1 flush red 1 flush green	—	Stop Start	LAY5-B376



Description Scheme	Marking	Marking on on legend push button	Type
3 spring return Pushbuttons	Open Stop Close	—	LAY5-B341H29
1 flush green 1 flush red 1 flush green	—	Open Stop Close	LAY5-B341



Description Scheme	Marking	Marking on on legend push button	Type
3 spring return Pushbuttons	≡	↑ ○ ↓	LAY5-B324
1 flush green (black arrow) 1 flush red 1 flush black (white arrow)	≡	↑ ○ ↓	LAY5-B334



Description Scheme	Marking	Marking on on legend push button	Type
3 spring return Pushbuttons	≡	○ 	LAY5-B31H29 LAY5-BB39
1 flush green 1 flush red 1 flush green	Up Stop Down	≡	LAY5-B321J29



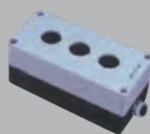
LAY5-B button switches

Description	Reference
Button box ϕ 22	LAY5-BOX1
for single ϕ 25	
Button	
IP40/IP65	



LAY5-B button switches

Description	Reference
Button box ϕ 22	LAY5-BOX2
for two ϕ 25	
buttons	
IP40/IP65	



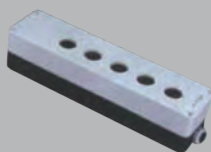
LAY5-B button switches

Description	Reference
Button box ϕ 22	LAY5-BOX3
for three ϕ 25	
buttons	
IP40/IP65	



LAY5-B button switches

Description	Reference
Button box ϕ 22	LAY5-BOX4
for four ϕ 25	
buttons	
IP40/IP65	



LAY5-B button switches

Description	Reference
Button box ϕ 22	LAY5-BOX5
for five ϕ 25	
buttons	
IP40/IP65	



LAY5-B button switches

Description	Reference
LAY5-DB2-JOS4441P	