

LAY7 Pushbutton Switches

Standard: IEC 60947-5

Function

LAY7 series of pushbutton switches provide:
□ Control and indicate the status of the circuit

Technical Data



Usage mode		Rated value		
AC-15	Rated voltage (Ue) V	660	380	220
	Rated current (Ie) A	1.1	2	3.3
DC-13	Rated voltage (Ue) V	440	220	110
	Rated current (Ie) A	0.25	0.5	1
Mechanical endurance 10 ⁵		30 (Flush type), 10 (Illuminated) 0.5 (Emergency stop, Selective-type, Key-tpye		
Electric endurance 10 ⁵		6 (Flush type), 1 (Illuminated) 0.5 (Emergency stop, Selective-type, Key-tpye		
Rated thermal current th A		10		
Operation frequency T/h		1200		
Contact resistance m Ω		≤ 50		
Before board protect degree		IP55		
Illuminated pushbutton				
Power supplier voltage		Filament lamp	Neon lamp	LED
Working voltage (Ue)V		6, 12, 24	110, 220, 380	6, 12, 24
Lifetime h		≥ 1000	≥ 2000	≥ 3000

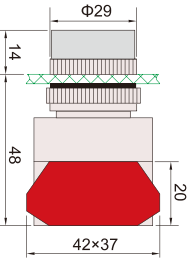
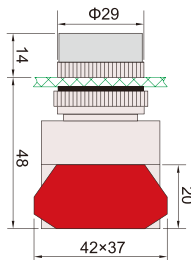
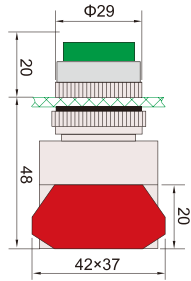
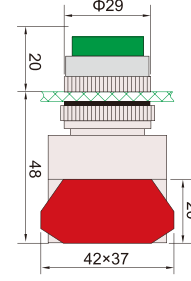
Working Condition

Temperature	-5℃~+40℃		
Relative humidity	≤ 50%(40℃) 90%(20℃)		
Above sea level	≤ 2000m		
Pollution grade	3		

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Order Information

Flush Button					Unit: MM	
Name	NO + NC	Type	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		
	10: 1NO	BN: Momentary	1: White	2: Φ 22	○ LAY711BN12 ● LAY711BN22 ● LAY711BN32 ● LAY711BN42 ● LAY711BN52 ● LAY711BN62	
	01: 1NC		2: Black	3: Φ 25		
	20: 2NO		3: Green	4: Φ 30		
	02: 2NC		4: Red			
	11: 1NO+1NC		5: Yellow			
			6: Blue			
	10: 1NO	BNZS: Maintained	3: Green	2: Φ 22	● LAY711BNZS32 ● LAY711BNZS42	
	01: 1NC		4: Red	3: Φ 25		
	20: 2NO			4: Φ 30		
	02: 2NC					
	11: 1NO+1NC					
	10: 1NO	GN: Momentary	3: Green	2: Φ 22	● LAY711GN32 ● LAY711GN42	
	01: 1NC		4: Red	3: Φ 25		
	20: 2NO			4: Φ 30		
	02: 2NC					
	11: 1NO+1NC					
	10: 1NO	GNZS: Maintained	3: Green	2: Φ 22	● LAY711GNZS32 ● LAY711GNZS42	
	01: 1NC		4: Red	3: Φ 25		
	20: 2NO			4: Φ 30		
	02: 2NC					
	11: 1NO+1NC					

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Order Information

Flush Button				
Name	NO + NC	Type	Color	Installation
LAY7	☐	☐	☐	☐



10: 1NO	JN: Full protection	3: Green	2: Φ 22
01: 1NC		4: Red	3: Φ 25
20: 2NO			4: Φ 30
02: 2NC			
11: 1NO+1NC			

Unit: MM	
Reference	Dimension
- LAY711JN32 - LAY711JN42	

Selective Switches					
Name	NO + NC	Type	Operation	Color	Installation
LAY7	☐	☐	☐	☐	☐



10: 1NO	X: Selective	20: 2p	C R	2: Black	2: Φ 22
01: 1NC	button with			3: Green	3: Φ 25
20: 2NO	short handle	21: 2p reset	C R	4: Red	4: Φ 30
02: 2NC					
11: 1NO+1NC		30: 3p	L C R		
		31: 3p reset	L C R		
		33: 3p reset	L C R		

Unit: MM	
Reference	Dimension
- LAY711X2022 - LAY711X2132 - LAY711X3042 - LAY711X3122 - LAY720X3022	



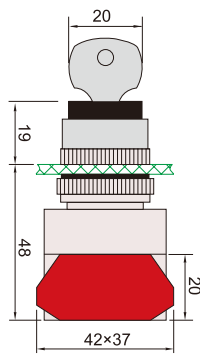
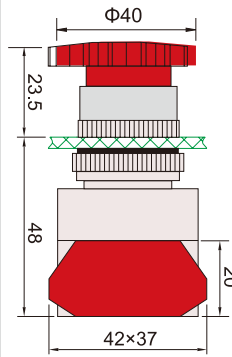
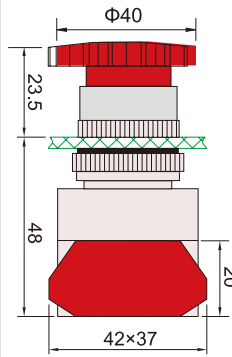
10: 1NO	XB: Selective	20: 2p	C R	2: Black	2: Φ 22
01: 1NC	button with			3: Green	3: Φ 25
20: 2NO	long handle	21: 2p reset	C R	4: Red	4: Φ 30
02: 2NC					
11: 1NO+1NC		30: 3p	L C R		
		31: 3p reset	L C R		
		33: 3p reset	L C R		

Unit: MM	
Reference	Dimension
- LAY711XB2022 - LAY711XB2132 - LAY711XB3042 - LAY720XB3022 - LAY720XB3322	

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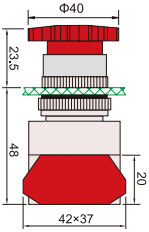
Order Information

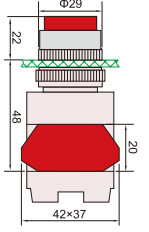
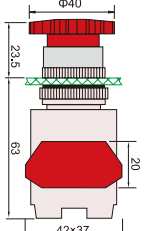
Key-operated Selective Switches					Unit: MM	
Name	NO + NC	Type	Operation	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		
	10: 1NO	Y: Key-operated	20:2p	C R	2: Ø 22	
	01: 1NC			↙	3: Ø 25	
	20: 2NO		21:2p reset	C R	4: Ø 30	
	02: 2NC			↘		
	11: 1NO+1NC		30:3p	L C R		
				↙ ↘		
	10: 1NO	M: Momentary			2: Ø 22	
	01: 1NC				3: Ø 25	
	20: 2NO				4: Ø 30	
	02: 2NC					
	11: 1NO+1NC					
	10: 1NO	MZS: Maintained			2: Ø 22	
	01: 1NC				3: Ø 25	
	20: 2NO				4: Ø 30	
	02: 2NC					
	11: 1NO+1NC					

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Order Information

Emergency Stop Button						Unit: M
Name	NO + NC	Type	Color	Installation	Reference	Dimension
LAY7	☐	☐	☐	☐		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	ZS:Emergency	3: Green 4: Red	2: Φ22 3: Φ25 4: Φ30	● LAY710ZS32 ● LAY701ZS42 ● LAY711ZS32 ● LAY711ZS42	

Illuminated Pushbutton Switches							Unit: M	
Name	NO + NC	Type	Color	Voltage	Installation	Light	Reference	Dimension
LAY7	☐	☐	☐	☒	☐	☒		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	D: Momentary (Illuminated)	3: Green 4: Red 5: Yellow 6: Blue 7: Pure white 8: Pure blue	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	DZS: Maintained (Illuminated)	3: Green 4: Red 5: Yellow 6: Blue 7: Pure white 8: Pure blue	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	DM: Momentary (Illuminated)	3: Green 4: Red	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament		
	10: 1NO 01: NC 20: 2NC 02: 2NC 11: 1NO+1NC	DMZS: Maintained (Illuminated)	3: Green 4: Red	T: 6V B: 24V F: 110V M: 220V Q: 380V	2: Φ22 3: Φ25 4: Φ30	N: Neon L: LED Blank: Filament		
							● LAY711D3*2* ● LAY711D4*2* ● LAY711D5*2* ● LAY711D6*2* ○ LAY711D7*2* ● LAY711D8*2*	
							● LAY711DZS3*2* ● LAY711DZS4*2* ● LAY711DZS5*2* ● LAY711DZS6*2* ○ LAY711DZS7*2* ● LAY711DZS8*2*	
							● LAY711DM3*2* ● LAY711DM4*2*	
							● LAY711DMZS3*2* ● LAY711DMZS4*2*	

Note: Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V

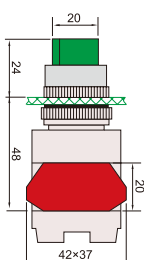
The pure white and pure blue are only available for LED lamp.

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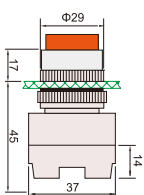
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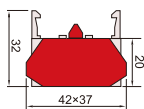
Illuminated Selective Switches								
Name	NO + NC	Type	Operation	Color	Voltage	Install	Light	
LAY7	☐	☐	☐	☐	☒	☐	☒	
								
10: 1NO		XD: Selective (Illuminated)	20:2p	C R	3.Green	T: 6V	2: ϕ 22	N: Neon
01: 1NC					4.Red	B: 24V	3: ϕ 25	L: LED
20: 2NO						F: 110V	4: ϕ 30	Blank:
02: 2NC						M:220V		Filament
11: 1NO+1NC			30:3p	L C R		Q: 380V		

Unit: MM	
Reference	Dimension
● LAY711XD203*2* ● LAY711XD204*2* ● LAY711XD303*2* ● LAY711XD304*2*	

Indication Lamp				
Name	Type	Color	Voltage	Install
LAY7	☐	☐	☒	☐
				
	XD1: Filament	1: White	T: 6V	2: Φ 22
	XD2: Neon	3: Green	B: 24V	
	XD3: LED	4: Red	F: 110V	
		5: Yellow	M:220V	
		6: Blue	Q: 380V	
		7: Pure white		
		8: Pure blue		

Unit: MM	
Reference	Dimension
○ LAY7XD11*2 ● LAY7XD23*2 ● LAY7XD34*2 ● LAY7XD15*2 ● LAY7XD26*2 ○ LAY7XD37*2 ● LAY7XD38*2	

Base		
Name	Type	Contact
LAY7	☐	☐
		
	BE: Auxiliary contact	101: 1NO
		102: 1NC
		103: 2NO
		104: 2NC
		105: 1NO+1NC

Unit: MM	
Reference	Dimension
LAY7BE101 LAY7BE102 LAY7BE103 LAY7BE104 LAY7BE105	

Note: Supplier voltage code: T:6V, B:24V, F:110V, M:220V, N:230V, Q:380V

The pure white and pure blue are only available for LED lamp.