

Product Overview

Y090 series are beautiful in appearance and complete in variety, and can provide a variety of solutions for industrial automation, medical equipment, electric power, machinery and other industry users to provide a variety of solutions.

Specs Products include buttons, signal indicators, emergency stop knob, knob, key knob, mushroom key knob, mushroom knob; ϕ 22 installation aperture, widely used.

Performance Using high quality inflaming retarding materials. Switch unit is separated independently and the insulating performance is very well. The product meets standards of IEC60947-5-1,GB14048.5 etc

StructureThe switch unit is slow-breal and self-cleaning. It uses modular combination mode and you can combine from one to eight switch units optional, so can make the product meet the requirement of many special control circuits.

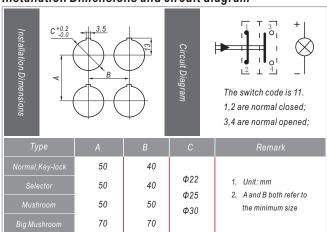
Protective Degree Protection class IP40



Performance Characteristics

Operating temperature	-25 ~ + 55 $^{\circ}\! C$ (no freezing) keep the air flowing around illuminated push button			
Operation Humidity	45~85%RH (no condensation)			
Contact Resistor	≤50mΩ			
Insulation Resistor	≥100MΩ(500VDC)			
Maximum withstand voltage	3000V, AC 50Hz, 1min			
Vibration Resistance	50Hz, Amplitude 1.0mm			
	Momentary knob ≥ 1 million times			
Mechanical Life	key knob, emergency stop button ≥ 200,000 times			
	Latching knob, selection knob ≥ 500,000 times			
Electrical Life	≥ 50,000 times			
Connection	Threaded connection, wire diameter: 2 x 1.5 mm² max			
Connection	Pin terminal: 6.3×0.8mm			
Operating force	1NO1NC: approx. 8N, 2NO2NC: approx. 14N (button)			
Operation Travel	Approx. 5.5 mm (button)			

Installation Dimensions and circuit diagram



Switch Ratings

Rated Insulation Voltage(Ui)		660V						
Terminal Current (Ith)		10A Temperature rise does not exceed the current allowed by the maximum rating						
R	Rated Voltage		24V	48V	110V	220V	380V	500V
	AC 50/60Hz	Resistive load	10A	_	10A	6A	_	_
Rated Current		Inductive load	10A	_	6 <i>A</i>	3 <i>A</i>	1.8A	1.4A
Nateu Guireit	DC	Resistive load	8A	4A	2.2A	1.1A	_	_
		Inductive load	4A	2A	1.1A	0.6A	_	_
Со	Contact material				Silv	er alloy		

Minimum adaptable load: 3VAC/DC 5mA (available range depends on the use environment and load type)

Lamp Ratings

Lamp Raungs					
Lamp type	2-way Illuminated LEDs				
Data d Waller	AC/DC 6V	AC/DC 12V	AC/DC110V	AC/DC220V	
Rated Voltage	AC/DC 24V		AC 110V	AC 220V	
Rated Current	20mA				
Lamp Life	40,000 hours				
Cover Color	R G Y B W				
Equivalent aircuit	AC/D0 (resistor ste	· .	R /	b	
Equivalent circuit	AC: (capacitor step Suitable Frequ	a•— o-down) ency: 50~60Hz	C R	R b	



The Contact Pair's Close-open State Chart of the Selector Switches and Key-lock Switches.

 ${\tt a.\ The\ Contact\ Pa\ ir's\ Close-open\ State\ Chart\ of\ 2-position\ Selector\ Switch.}$

	Type	®	②
1	Y090-11 /2		
2	Y090-02 /2	910 910	0 0 0 0
3	Y090-20 /2	<u> </u>	●1● ●1●
4	Y090-22 /2		
5	Y090-13 /2		0 0 0 0 0
6	Y090-31 /2		
7	Y090-04 /2		0000
8	Y090-40 /2	0000	
9	Y090-42 /2		
10	Y090-24 /2		
11	Y090-06 /2		0000
12	Y090-60 /2	0000	
13	Y090-33 /2		
14	Y090-15 /2		
15	Y090-51 /2		

Note: 1. \bigcirc express open state, \bigcirc express close state.

2. If you need other contact state, please tell us.

 $\textbf{B.} \ \ \textbf{The Contact Pair's Close-open State Chart of 3-position Selector Switch}.$

	Туре	(S)		Ø
1	Y090-11 /3	•1• •1•	0 0 •1•	0 0 0 0
2	Y090-02 /3	0 0 •1•		
3	Y090-20 /3		0 0 0 0	0 0 •1•
4	Y090-22 /3			
5	Y090-13 /3			
6	Y090-31 /3		0 0 0 0	
7	Y090-04 /3			
8	Y090-40 /3		0000	
9	Y090-42 /3			
10	Y090-24 /3			
11	Y090-06 /3			
12	Y090-60 /3		0000	
13	Y090-33 /3			0000
14	Y090-15 /3			
15	Y090-51 /3			

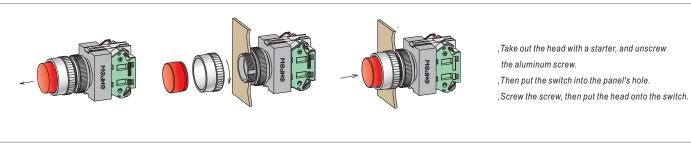


Y090 Series model description

Y090- / / / /

Symbol	Symbol name	Specify		
Y090	Series No.	Series number; if you need economic type, please add "E" at the end, i.e.: Y090E		
		one group of switching elements	11(1NO1NC)/10(1NO)/01(1NC)/20(2NO)/02(2NC)	
	Contact structure	two groups of switching elements	22(2NO2NC) / 40(4NO) / 04(4NC) / 31(3NO1NC) / 13(1NO3NC) 30(3NO) / 03(3NC) / 21(2NO1NC) / 12(1NO2NC)	
		Three groups of switching elements configuration and so on, can choose the combination according to the need		
	Operation type	No letter means Momentary D: Signal indicator / BD: Ball signal indicator / Z: latching button / G: High button / M: Mushroom button / ZM: latching mushroom button / TS: Emergency stop button / X: Rotary knob / XB: Knob / Y: Key Knob / YM: Mushroom Key Knob / M: Continuous Buzzer / S: Flashing Light / SM: Flashing Intermittent Buzzer		
	Selector button and key button operation position	2:Two position / 3:Three position		
	Selector Knob and Key Knob operation Type	1 maintain / 2 half return / 3 self return		
	Lamp color	R: Red / G: Green / Y: Yellow / B: Blue / W: White/ N: Black		
	Lamp voltage	6V/12V/24V/110V/220V/380V/No letter means no light		

Instruction





Product Picture Description Dimension



LED color LED voltage IP degree

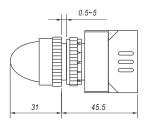
Accessory

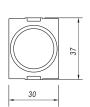
R G Y B W

6V/12V/24V/110V/220V/380V

IP40

T04 Sign Frame







LED color LED voltage IP degree

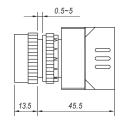
Accessory

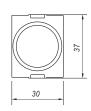
R G Y B W

6V/12V/24V/110V/220V/380V

IP40

T04 Sign Frame





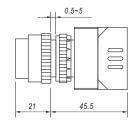


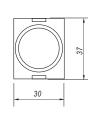
LED color LED voltage IP degree Accessory R G Y B W

6V/12V/24V/110V/220V/380V

IP40

T04 Sign Frame







Contact

11: 1NO1NC / 10: 1NO / 01: 1NC

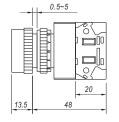
Other switch combinations refer to the model description

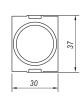
Operation Z: Latching / No letter: Momentary

LED color LED voltage R G Y B W N 6V/12V/24V/110V/220V/380V

IP degree IP4

Accessory Seal cover T01 / Sign frame T04 / Protective cover T17







Contact 11: 1NO1NC / 10: 1NO / 01: 1NC

Other switch combinations refer to the model description

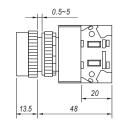
Operation Z: Latching / No letter: Momentary

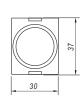
LED color R G Y B W N

LED voltage 6V/12V/24V/110V/220V/380V

IP degree IP4

Accessory Seal cover T01 / Sign frame T04 / Protective cover T17













Product Picture Description Dimension



Contact 11: 1NO1NC / 10: 1NO / 01: 1NC

Other switch combinations refer to the model description

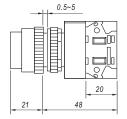
Operation Z: Latching / No letter: Momentary

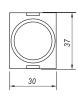
LED color R G Y B W N

LED voltage 6V/12V/24V/110V/220V/380V

IP degree IP40

Accessory Protective cover T16







Contact 11: 1NO1NC / 10: 1NO / 01: 1NC

Other switch combinations refer to the model description

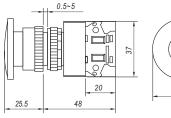
Operation Z: Latching / No letter: Momentary

LED color R G Y

LED voltage 6V/12V/24V/110V/220V/380V

IP degree IP40

Accessory Protective cover T16







Contact 11: 1NO1NC / 10: 1NO / 02: 2NC

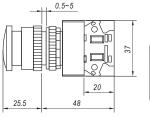
Other switch combinations refer to the model description

LED color R G

LED voltage 6V/12V/24V/110V/220V/380V

IP degree IP40

Accessory Warning ring T14-2260 / T26 protection ring







Contact 11: 1NO1NC / 10: 1NO / 02: 2NC

R G

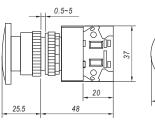
Other switch combinations refer to the model description

LED color

LED voltage 6V/12V/24V/110V/220V/380V

IP degree IP40

Accessory Warning ring T14-2260 / T26 protection ring







Contact 11: 1NO1NC / 20: 2NO / 02: 2NC

 $Other \ switch \ combinations \ refer \ to \ the \ model \ description$

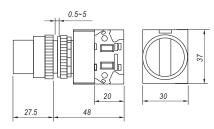
Operation L R L C

(32 Default right momentary, left mementary can be customized) Contact, pls refer to "contact on/off chart"

LED color R G Y N

LED voltage 6V/12V/24V/110V/220V/380V

IP degree IP40 Accessory T04 sign frame













Description



11: 1NO1NC / 20: 2NO / 02: 2NC Contact

Other switch combinations refer to the model description

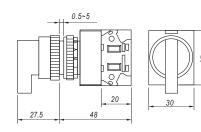


(32 Default right momentary, left mementary can be customized) Contact, pls refer to "contact on/off chart"

R G N LED color

IP degree IP40

Accessory T04 sign frame

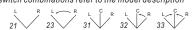




11: 1NO1NC / 20: 2NO / 02: 2NC Contact

Other switch combinations refer to the model description

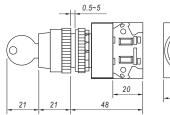
Operation



(32 Default right momentary, left mementary can be customized) Contact, pls refer to "contact on/off chart"

IP degree IP40

T04 sign frame Accessory







Contact 11: 1NO1NC / 20: 2NO / 02: 2NC

Other switch combinations refer to the model description

Operation

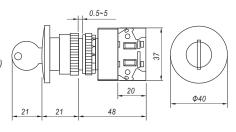


(32 Default right momentary, left mementary can be customized) Contact, pls refer to "contact on/off chart"

LED color R G IP degree

IP40

T04 sign frame Accessory





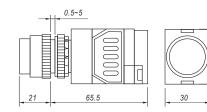
LED color

6V/12V/24V/110V/220V LED voltage

IP40 IP degree

Rated sound intensity 75dB (1m) (rated voltage)

Frequency $2.3kHz\ 300Hz$







Refer to Y090 product selection

