

Product Overview

MR-LAS0 series is divided into A3, B3, Q, K, L, K30 six products, representing six product structure (refer to the specific product structure illustration), the series of button head modeling variety, the The structure is cleverly designed, and the operating part of the link with the center base uses a large span of multi-point card, high Wall inline fixed installation, anti-drop, anti-vibration, can meet the user a variety of use scenarios. It can meet a variety of user scenarios. The K30 type button is ultra-thin head (the head of the button to the panel <3mm), beautiful appearance, comfortable operation, and installation holes. Beautiful and comfortable to operate, the installation aperture is Φ30mm.

Specs Products include push button, signal indicator, emergency stop knob, knob, key knob, key emergency stop knob, mushroom knob, double-position knob, cross switch; mounting holes cover Φ22mm, Φ25mm (use fixed nut reducer), Φ30mm (K30 type only).

Performance High quality engineering flame retardant materials are used, and the switch components are separated independently in the structure. Good insulation performance; products comply with IEC60947-5-1, GB/T14048.5 and other standards.

Structure There are two types of switch elements: "fast-acting" and "slow-acting" with "self-cleaning" function. The switch blocks can be assembled in a modular manner, with two switch elements installed in each block. Up to 8 switch elements can be combined to meet the requirements of various specific control circuits.

Protective Degree Conventional configuration IP40, some products can be customized IP65/IP67.

Switch Ratings

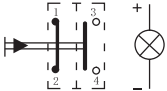
Rated Insulation Voltage(Ui)			500V					
Terminal Current (Ith)			10A Temperature rise does not exceed the current allowed by the maximum rating					
Rated Voltage			24V	48V	110V	220V	380V	500V
Rated Current	AC 50/60HZ	AC-12 resistive load and Semiconductor load control	10A	—	10A	6A	—	—
		AC-15 electronic load control (>72VA)	10A	—	6A	3A	1.8A	1.4A
	DC	DC-12 resistive load and Semiconductor load control	8A	4A	2.2A	1.1A	—	—
		DC-13 electronic load control	4A	2A	1.1A	0.6A	—	—
	Contact material			Silver alloy				

Minimum load : 3VAC/DC;5mA (Application scope depends on operating environment and load type)

Performance Characteristics

Operating temperature	-25 ~ + 55℃ (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
Mechanical Life	Momentary knob ≥ 1 million times,
	Latching knob, selection knob ≥ 500,000 times ,
Electrical Life	key knob, emergency stop button ≥ 200,000 times.
	More than 50,000 times (cross switch ≥ 10,000 times or more)
Connection	Threaded connection, wire diameter: 2 x 1.5 mm² max
	Pin terminal: 6.3x0.8mm
Operating force	1NO1NC: approx. 10N, 2NO2NC: approx. 17N (button)
	1NO1NC: approx. 14N, 2NO2NC: approx. 21N (waterproof button)
Operation Travel	A,B,Q type: about 5.0mm(pushbutton)
	K L K30 type: about 3.8mm(pushbutton)

Installation Dimensions and circuit diagram

Type	Installation Dimensions			circuit diagram
	A	B	C	
Normal	Φ22.5	≥ 50	≥ 35	 The switch code is 11. 1,2 are normal closed; 3,4 are normal opened;
Selector,Key-lock	Φ25.5	≥ 50	≥ 35	
Mushroom	Φ25.5	≥ 50	≥ 42	
Big Mushroom	Φ30.5	≥ 70	≥ 70	

PART NUMBERS ON THIS DRAWING

MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON		Micro-Ray	
MR-LAS0-L SERIES			
PART NO	MR-LAS0-L		
DWG NO	MR-LAS0-L	SHEET 1 OF 7	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

Lamp Ratings

Lamp type	2-way Illuminated LEDs				Equivalent circuit	AC/DC: (resistor step-down) a — [R] — [LED] — b AC: (capacitor step-down) a — [C] — [R] — [LED] — b Suitable Frequency: 50 ~ 60 Hz
Rated Voltage	AC/DC 6V	AC/DC 12V	AC/DC110V	AC/DC220V		
	AC/DC 24V		AC 110V	AC 220V		
Rated Current	≦20mA					
Lamp Life	40,000 小时					
Cover Color	RGYBW					

Note: 1. The lamp contains current-limiting resistor inside and doesn't need connect outside.
2. The standard is using AC/DC LED lamp, DC LED lamp, dual-color LED lamp and other voltages can be customized.

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

a、The Contact Pair's Close-open State Chart of 2-position Selector Switch.

	Type		
1	LAS0-11		
2	LAS0-02		
3	LAS0-20		
4	LAS0-22		
5	LAS0-13		
6	LAS0-31		
7	LAS0-04		
8	LAS0-40		
9	LAS0-42		
10	LAS0-24		
11	LAS0-06		
12	LAS0-60		
13	LAS0-33		
14	LAS0-15		
15	LAS0-51		

B、The Contact Pair's Close-open State Chart of 3-position Selector Switch.

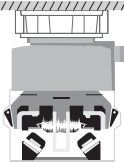
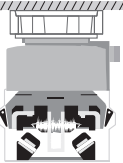
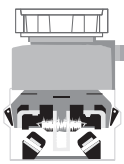
	Type			
1	LAS0-11			
2	LAS0-02			
3	LAS0-20			
4	LAS0-22			
5	LAS0-13			
6	LAS0-31			
7	LAS0-04			
8	LAS0-40			
9	LAS0-42			
10	LAS0-24			
11	LAS0-06			
12	LAS0-60			
13	LAS0-33			
14	LAS0-15			
15	LAS0-51			

Note: 1、 express open state, express close state.
2、If you need other contact state, please tell us.

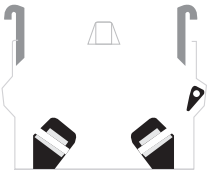
PART NUMBERS ON THIS DRAWING
MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON		Micro-Ray	
MR-LAS0-L SERIES			
PART NO	MR-LAS0-L		
DWG NO	MR-LAS0-L	SHEET 2 OF 7	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

Structure Charts

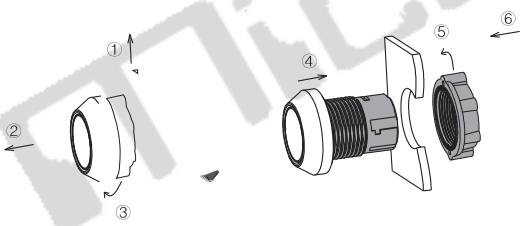
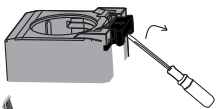
A type operating head Φ22mm	B type operating head Φ22mm	K type operating head Φ22mm	L type operating head Φ22mm	K30 type operating head Φ22mm
				
MR-LAS0-A3	MR-LAS0-B3	MR-LAS0-K	MR-LAS0-L	MR-LAS0-K30

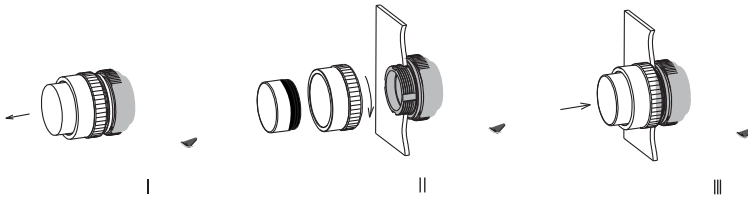
Q type operating head reference disassembly schematic

Quick-break Switch (Default blue)	Slow-break Switch (Default green)
	

If you need slow motion structure , please add M in the front of the model number.

Product Installation Diagram

MR-LAS0-K/L/A3/B3 Instruction	Disassembly Way
	
If the push button need to be shork-proof, you can ask for small screws to stable the nut.	

MR-LAS0-Q Instruction	
	I Take out the head with a starter, and unscrew the aluminum screw. II Then put the switch into the panel's hole. III Screw the screw, then put the head onto the switch.

PART NUMBERS ON THIS DRAWING
MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON		Micro-Ray	
MR-LAS0-L SERIES			
PART NO	MR-LAS0-L		
DWG NO	MR-LAS0-L	SHEET 3 OF 7	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

MR-LAS0 Series model description

LAS0-☆-□/◆/△/▲/※

Symbol	Symbol name	Specify
☆	Code of series	L: L-type head (aluminum color) / LA: L-type head (aluminum black) / K: K-type head (aluminum color) / KA: K-type head (aluminum black) / KE: K-type head (economy type) / K30: 30 K-type / A3: A3-type head / B3: B3-type head / Q: Q-type head
□	Contact structure	one group of switching elements 11(1NO1NC) / 10(1NO) / 01(1NC) / 20(2NO) / 02(2NC)
		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, Such as the number of contacts before EA or EB in the model description, it means that the product is a momentary button with light. Z alternate normal type Q momentary metal domed type TSA A type emergency stop knob YA A type key knob D pilot lamp ZP alternated metal flat type TSB B type emergency stop YTS Key emergency stop EA transparent ring pilot lamp ZQ alternate metal domed type TSC C type emergency stop S double-position pushbutton EB colored ring pilot lamp MA A type momentary mushroom X selector switch C21 double-position rocker switch ZEA alternate transparent ring illuminated MB B type momentary mushroom XAA type lever switch C23 double-position momentary rocker switch ZEB alternate colored ring illuminated ZMAA type alternate mushroom XB B type lever switch C41 four-position rocker switch P momentary metal flat type ZMB B type alternate mushroom XC C type lever switch C43 four-position momentary rocker switch
◇	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
●	Unmovable Position of Key	A:  B:  C:  D:  E:  G:  H: 
△	Lamp color	R: Red / G: Green / Y: Yellow / B: Blue / W: White / N: Black
▲	Lamp voltage	6V / 12V / 24V / 110V / 220V / No letter means no light
※	IP Degree	P: IP65 / No letter means IP40

PART NUMBERS ON THIS DRAWING

MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON		Micro-Ray	
MR-LAS0-L SERIES			
PART NO	MR-LAS0-L		
DWG NO	MR-LAS0-L	SHEET 4 OF 7	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

Product Picture	Description	Dimension
Pilot Lamp LAS0-L-D/△/▲/※	LED color △ RGBW LED voltage ▲ 6V / 12V / 24V / 110V / 220V / 380V IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cover T16	
Transparent Ring Pilot Lamp LAS0-L-EA/△/▲/※	LED color △ RGBW LED voltage ▲ 6V / 12V / 24V / 110V / 220V / 380V IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cover T16	
Ring Pilot Lamp LAS0-L-EB/△/▲/※	LED color △ RGBW LED voltage ▲ 6V / 12V / 24V / 110V / 220V / 380V IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cover T16	
Push button (can be illuminated) MR-LAS0-L-□■/△/▲/※	Contact □ 11: 1NO1NC / 10: 1NO / 01: 1NC Other switch combinations refer to the model description Operation ■ Z: Latching / No letter: Momentary LED color △ RGBW LED voltage ▲ 6V / 12V / 24V / 110V / 220V IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cap T16 / T35 protective cover	
Push button (can be illuminated) MR-LAS0-L-□■EA/△/▲/※	Contact □ 11: 1NO1NC / 10: 1NO / 01: 1NC Other switch combinations refer to the model description Operation ■ Z: Latching / No letter: Momentary LED color △ RGBW LED voltage ▲ 6V / 12V / 24V / 110V / 220V IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cap T16 / T35 protective cover	

PART NUMBERS ON THIS DRAWING
MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON			Micro-Ray	
MR-LAS0-L SERIES				
PART NO	MR-LAS0-L			
DWG NO	MR-LAS0-L		SHEET 5 OF 7	REV A
UNITS: mm		SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

Product Picture	Description	Dimension
Ring Push button (can be illuminated) MR-LAS0-L-□EB/△/▲/※	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 LED voltage ▲ 6V / 12V / 24V / 110V / 220V IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cap T16 / T35 protective cover	
Metal Flat Head Push button MR-LAS0-L-□P/※	Contact □ 11: 1NO1NC / 10: 1NO / 01: 1NC Other switch combinations refer to the model description Operation ■ Z: Latching / No letter: Momentary IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cap T16 / T35 protective cover	
Metal Domed Head Push button MR-LAS0-L-□Q/※	Contact □ 11: 1NO1NC / 10: 1NO / 01: 1NC Other switch combinations refer to the model description Operation ■ Z: Latching / No letter: Momentary IP degree ※ P:IP65 / No letter means IP40 Accessory Protective cap T16 / T35 protective cover	
Selector Switch MR-LAS0-L-□X/◇◆/※	Contact □ 11: 1NO1NC / 20: 2NO / 02: 2NC Other switch combinations refer to the model description Operation ◇◆ (32 Default right momentary, left momentary can be customized) Contact, pls refer to "contact on/off chart" IP degree ※ P:IP65 / No letter means IP40 Accessory T35 protective cover	
B Type Lever Switch MR-LAS0-L-□XB/◇◆/※	Contact □ 11: 1NO1NC / 20: 2NO / 02: 2NC Other switch combinations refer to the model description Operation ◇◆ (32 Default right momentary, left momentary can be customized) Contact, pls refer to "contact on/off chart" IP degree ※ P:IP65 / No letter means IP40 Accessory T35 protective cover	

PART NUMBERS ON THIS DRAWING
MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON			Micro-Ray	
MR-LAS0-L SERIES				
PART NO	MR-LAS0-L			
DWG NO	MR-LAS0-L		SHEET 6 OF 7	REV A
UNITS: mm		SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

Product Picture	Description	Dimension
Key-lock Switch MR-LAS0-L-□YA/◇◆●/※	Contact □ 11: 1NO1NC / 20: 2NO / 02: 2NC Other switch combinations refer to the model description Operation ◇◆ (32 Default right momentary, left momentary can be customized) Contact, pls refer to "contact on/off chart" IP degree IP40, Maintain type can be customized to IP65 Accessory T35 protective cover	

Rocker Switch 2 Position	Two position rocker operation 2NO	MR-LAS0-K-20C21
	Two position rocker operation 4NO	LAS0-K-40C21
	Two position return rocker operation 2NO	MR-LAS0-K-20C23
	Two position return rocker operation 4NO	LAS0-K-40C23
Rocker Switch 4 Position	Four position rocker operation 4NO	MR-LAS0-K-40C41
	Four position return rocker operation 4NO	MR-LAS0-K-40C43

Note

- The Rocker Switch is normally open contacts, and the switch corresponding to the number is closed when the corresponding position is triggered.
- IP degree: IP67
- Accessories: T18-2 indicator ring (two positions) / T18-4 indicator ring (four positions)

PART NUMBERS ON THIS DRAWING

MR-LAS0-K-C2 MR-LAS0-K-C4 MR-LAS0-L MR-LAS0-L-D MR-LAS0-L-EA MR-LAS0-L-EA-PB
MR-LAS0-L-EB MR-LAS0-L-EB-PB MR-LAS0-L-P MR-LAS0-L-Q MR-LAS0-L-X MR-LAS0-L-XB
MR-LAS0-L-YA

22 MM PUSH BUTTON MR-LAS0-L SERIES		Micro-Ray	
PART NO	MR-LAS0-L		
DWG NO	MR-LAS0-L	SHEET 7 OF 7	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22