



LCA Part-number Description

LCA★-11■ ◇/△/▲/S/※

Symbol	Symbol name	Specify
*	Mounting hole	19: Φ19mm/22: Φ22mm/25: Φ25mm/30: Φ30mm
11	Contact structure	11: 1NO1NC
•	Operation type	No letter means momentary / Z(latching)
\Diamond	Illumination	E: Ring / ET: Ring + power symbol / no letter means non-illumination
Δ	LED color	R: Red / G: Green / Y: Yellow / B: Blue / W: White
A	LED voltage	6V/12V/24V/110V/220V with internal resistor, Other voltage can be customized
©	Housing material	S: stainless steel
*	Protecting level	no letter means IP65/FP: IP67

Note: please carefully read the specific description of the product and select the corresponding code in the table according to different symbols.

Performance Characteristic

remoninance characteristic		
Operating temperature	-25° C \sim +55 $^{\circ}$ C(no freezing),	
Operating temperature	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	1000VAC, 50Hz, 1min	
Vibration Resistance	50Hz, Amplitude 1.2mm	
Solder Heat Resistance	320°C 3s	
	15A/250VAC(Resistive load)	
Switch rating	10A/250VAC(Inductive load)	
	0.3A/250VDC(Inductive load)	
Mechanical Life	∌00K cycles	
Electrical Life	≨0K cycles	
Base material	PA	
Nut Torque	Around 0.6Nm	
Operation Pressure	Around 4N	
Operation Travel	Around 2.5mm	
Protecting level	IP65(Momentary type can be customized to IP67),IK08	

LED Specifications

LED life	Current	Allowable voltage fluctuation range	Circuit diagram	
≥40000 hours	≤24V about 15mA ≥110V about 2mA	DC: ±10% AC: ±20%	R The product has built-in protective resistance, and the lamp bead wiring has no distinction between ossilive and neative poles.	

Switch Rating

Current(A)	Non electrical inductive load		Inductive load	
Voltage(V)	Resistive load	LED load	Inductive load	Electromotor load
AC250	15	2	10	3
DC8	15	4	10	6
DC30	10	4	10	4
DC125	0.6	0.1	0.6	0.1
DC250	0.3	0.05	0.3	0.05

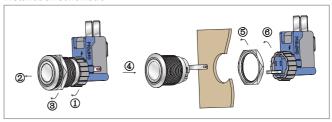
Contact specitication

Contact Specification		
	style	rivet
Contact	material alloy	silver
	interval	1mm
inrush current		Max.36A

Contact structure type

Туре	Diagram	sign
С	NO C	NO—C

Installation schematic





 Φ 19、22mm Picture Specifications Dimensions



Contact structure 11: 1NO1NC

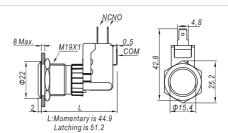
Operation type No letter means Momentary / Z: Latching

Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level * No letter means IP65 / FP: IP67(only for momentary type)





Contact structure 11: 1NO1NC

Operation type No letter means Momentary / Z: Latching

LED color△ R G Y B W

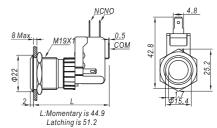
LED voltage ▲ 6V/12V/24V/110V/220V

Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level % No letter means IP65 / FP: IP67 (only for momentary type)





Contact structure 11: 1NO1NC

Operation type No letter means Momentary / Z: Latching

LED color△ R G Y B W

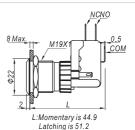
LED voltage ▲ 6V/12V/24V/110V/220V

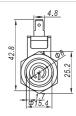
Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level * No letter means IP65 / FP: IP67 (only for momentary type)







Contact structure 11: 1NO1NC

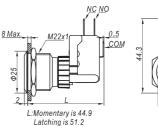
Operation type No letter means Momentary / Z: Latching

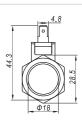
Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level * No letter means IP65 / FP: IP67 (only for momentary type)







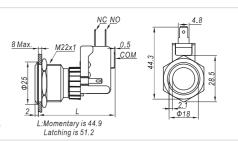
Contact structure 11: 1NO1NC

Operation type No letter means Momentary / Z: Latching

Housing material S: Stainless steel
Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level~%~~No letter means IP65/FP: IP67 (only for momentary type)





Contact structure 11: 1NO1NC

Operation type No letter means Momentary / Z: Latching

LED color△ R G Y B W

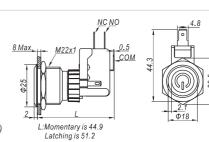
LED voltage ▲ 6V/12V/24V/110V/220V

Housing material S: Stainless steel

Terminal Type: Switch Pin terminal 4(.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level * No letter means IP65 / FP: IP67 (only for momentary type)





Specifications Φ25、30mm Picture Dimensions



Contact structure 11: 1NO1NC

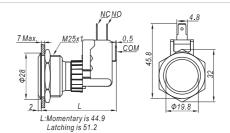
Operation type No letter means Momentary / Z: Latching

Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level * No letter means IP65 / FP: IP67 (only for momentary type)





Contact structure 11: 1NO1NC

No letter means Momentary / Z: Latching Operation type

R G Y B W $LED\ color \triangle$

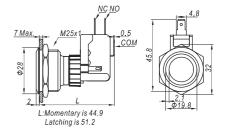
6V/12V/24V/110V/220V LED voltage ▲

Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

Protection level ** No letter means IP65 / FP: IP67 (only for momentary type)





Contact structure 11: 1NO1NC

Operation type No letter means Momentary / Z: Latching

 $LED\ color \triangle$ R G Y B W

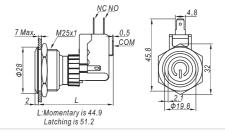
LED voltage ▲ 6V/12V/24V/110V/220V

S: Stainless steel Housing material

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

No letter means IP65 / FP: IP67 (only for momentary type) Protection level *





11: 1NO1NC Contact structure

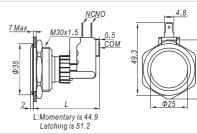
Operation type No letter means Momentary / Z: Latching

Housing material S: Stainless steel

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

No letter means IP65 / FP: IP67 (only for momentary type) Protection level *





Contact structure 11: 1NO1NC

Terminal Type:

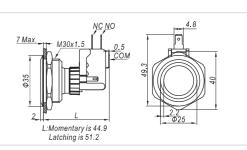
Operation type No letter means Momentary / Z: Latching

R G Y B W $LED\ color \triangle$ LED voltage ▲ 6V/12V/24V/110V/220V

Housing material S: Stainless steel

> Switch Pin terminal (4.8x0.5mm) LED pins terminal (2.8x0.5mm)

Protection level * No letter means IP65 / FP: IP67 (only for momentary type)





Contact structure 11: 1NO1NC

Operation type No letter means Momentary / Z: Latching

R G Y B W $LED\ color \triangle$ LED voltage ▲ 6V/12V/24V/110V/220V

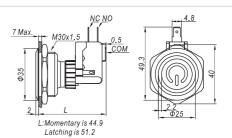
S: Stainless steel

Housing material

Terminal Type: Switch Pin terminal (4.8x0.5mm)

LED pins terminal (2.8x0.5mm)

No letter means IP65 / FP: IP67 (only for momentary type) Protection level *





 Φ 16、19、22mm Picture Specifications Dimensions



Contact structure 1NO(Momentary)

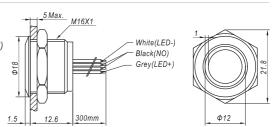
Terminal Type 24AWG 30cm wire leading (Pin terminal can be customized)

 $LED color \triangle$ R G Y B W

LED voltage ▲ 6V/12V/24V

Housing material S: Stainless steel

Protection level IP65,IK05





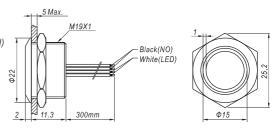
Contact structure 1NO(Momentary)

Terminal Type 24AWG 30cm wire leading (Pin terminal can be customized)

LED voltage ▲ 6V/12V/24V

Housing material S: Stainless steel

Protection level ※ No letter means IP65 / FP:IP67





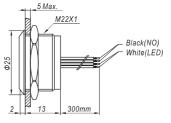
Contact structure 1NO(Momentary)

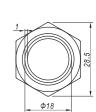
Terminal Type 24AWG 30cm wire leading (Pin terminal can be customized)

LED color △ RGYBW
LED voltage ▲ 6V/12V/24V
Housing material S: Stainless steel

Protection level

IP65,IK05





Performance Characteristic

i eriorinance characteristic		
Omerating termine waters	-25°C∼+55°C(no freezing),	
Operating temperature	keep the air flowing around illuminated push button	
Operation Humidity	45~85%RH(no condensation)	
Contact Resistor	≤100mΩ	
Insulation Resistor	≥100MΩ (500VDC)	
Maximum withstand voltage	1000VAC, 50Hz, 1min	
Vibration Resistance	50Hz, Amplitude 1.2mm	
Solder Heat Resistance	320°C 3s	
Switch rating	50mA/24VDC	
Mechanical Life	∌ 00K cycles	
Electrical Life	∌0K cycles	
Base material	PBT	
Nut Torque	Around 0.6Nm	
Operation Pressure	Around 3.8N(MTA16), Around 7.8N(MTA19), Around 5N(MTA22)	
Operation Travel	0.5mm	
Protecting level	IP65(MTA19F can be customized to IP67),IK05	

LED Specifications

LED life	Current	Allowable voltage fluctuation range	Circuit diagram	
≥40000 hours	≤24V about 15mA	DC: ±10%	R The product has built-in protective resistance, and the lamp bead wiring has no distinction between positive and negative poles.	



Feature

★ Pressure-activated switch

★ 50 million life cycles

★ Mounting hole:12,16,19,22mm

★ Operation type: Momentary or latching

★ Waterproof level IP68, IP69K

★ It works in many harsh environments.

Performance Characteristic

Max. current / voltage rating: 200mA 24VAC/DC

Switch resistance ON: 10Ω max. Switch resistance OFF: $5M\Omega$ min. Operating force: 5 to 10NOperating life: 50 million cycles

LED consumption: Illuminated dot: 10mA Illuminated ring: 20mA

Protecting level IP68/IP69K, IK06 (Stainless steel)

Vibration resistance: 10-500Hz / 10g

Operating temperature: -40°C to + 75°C (Instantaneous temperature difference not exceeding 20°C)

Terminal type: 26AWG, length 300mm, twisted by pair

PS Part-number Description

PS☆★□■◆◇∧▲

Symbol	Symbol name	Specify
☆	Mounting hole	12: Ф12mm/16: Ф16mm/19: Ф19mm/22: Ф22mm
*	Operator	1P: Flat operator. height 1 .0 (non illuminated) / 3P: Flat operator. height 3.0 / 3Z: Flat operator. height 3.0 /
*	Орегаси	5P: Flat operator height 4.5 / 5Z: With finger location, height 4.5 (non illuminated)
	Electrical function	10: NO(pulse) / 01: NC(pulse) / 10Z: NO(latching) / T30: 30 seconds delay (requires external power supply)
•	Terminal type	Y: wire leading (length 30cm) Other wire length can be customized
•	Color / Material	NT: Natural anodized / BU: Blue anodized / BK: Black anodized / GD: Gold anodized / GN: Green anodized / RD: Red anodized / SS: Stainless steel
\Diamond	Switch rating	1: 200mA 24VAC/DC
Δ	LED color	No letter means non illuminated / Momentary type with LED: R Red G Green Y Yellow B Blue W White / latching type with LED: NR Non-illum. / Red, NG Non-illum. / Green, NB Non-illum. / blue, Other LED color can be customized.
		No letter means non illuminated / 05T: Thin ring-5VDC / 12T: thin ring-12VDC / 24T: Thin ring-24VDC.
A	LED voltage and type	05L: large ring-5VDC/12T: large ring-12VDC/24T: large ring-24VDC.
		05D: Dot illum5VDC /12D: Dot illum12VDC/24D: Dot illum24VDC

Note: please carefully read the specific description of the product and select the corresponding code in the table according to different symbols.



Operating status description

Finger pressure applied to switch

1 = pressure

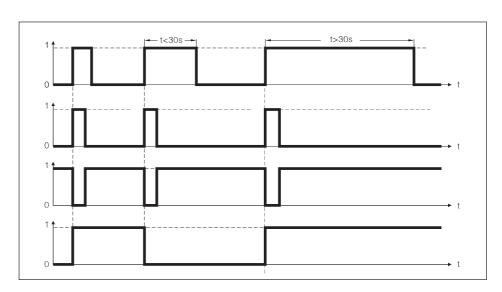
0 = no pressure

Output

- Momentary NO (pulse) No external power supply required

- Momentary NC (pulse) No external power supply required

- Latching (ON-OFF) Requires external power supply



Wiring diagram

	Non-illuminated	1 ED*	2 LEDs	3 LEDs
Momentary NO (puise)	Black	Black	Black X X X	Black X X X X X X
Momentary NO (pulse)	Black	Black	Black X X X	Black X X X X X
Latching (ON-OFF)	White Black 9-24VAC/DC White Black	9-24VAC/DC White Black	White Black 9-24VAC/DC White Black	

NOTE: X means the color of the wire depends on the color of the LED.

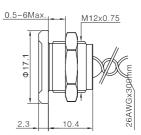


Φ12、16mm Picture Specifications Dimensions



Electrical function 1NO (pulse)
Housing color SS: Stainless steel
Rating current 200mA

Housing material Stainless steel
Protection level IP68, IP69K





Electrical function \square 1NO (pulse)/ 01 NC (pulse)

Housing color◆ NT Natural anodized / BU Blue anodized / BK Black anodized /

GD Gold anodized / GN Green anodized / RD Red anodized /

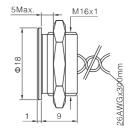
SS Stainless steel

Voltage 24VAC/DC

Rating current 200mA

Housing material Aluminum /Stainless steel

Protection level IP68, IP69K





Electrical function 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching

Housing color◆ NT Natural anodized / BU Blue anodized / BK Black anodized /

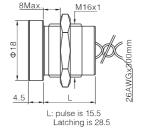
GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

Voltage 24VAC/DC Rating current 200mA

Housing material Aluminum / Stainless steel

Protection level IP68, IP69K





Electrical function ☐ 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching

Housing color◆ NT Natural anodized / BU Blue anodized / BK Black anodized /

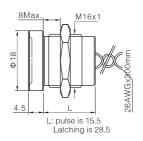
GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

Voltage 24VAC/DC Rating current 200mA

Housing material Aluminum / Stainless steel

Protection level IP68, IP69K





Electrical function 1NO (pulse)/ 01 NC (pulse)/10Z: NO latching

Housing color NT Natural anodized / BU Blue anodized / BK Black anodized /

GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

LED color

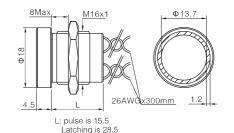
R G Y B W

Voltage 5V, 12V, 24V

Rating current 200mA

Housing material Aluminum / Stainless steel

Protection level IP68





Φ19mm Picture Specifications Dimensions



Electrical function 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching

Housing color◆

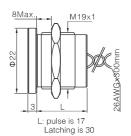
NT Natural anodized / BU Blue anodized / BK Black anodized / GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

Voltage 24VAC/DC Rating current 200mA

Aluminum / Stainless steel Housing material

Protection level IP68, IP69K





Electrical function ☐ 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching

NT Natural anodized / BU Blue anodized / BK Black anodized / Housing color◆

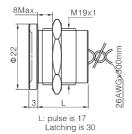
GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

Voltage 24VAC/DC Rating current 200mA

Aluminum / Stainless steel Housing material

IP68, IP69K Protection level





1NO (pulse)/ 01 NC (pulse)/10Z: NO latching Flectrical function

NT Natural anodized / BU Blue anodized / BK Black anodized /

GD Gold anodized / GN Green anodized / RD Red anodized /

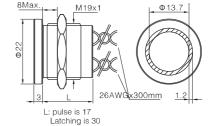
SS Stainless steel

LED color R G Y B W 5V. 12V, 24V Voltage

Rating current 200mA Housing material Aluminum / Stainless steel

Protection level IP68

Housing color





1NO (pulse)/ 01 NC (pulse)/10Z: NO latching Electrical function Housing color

NT Natural anodized / BU Blue anodized / BK Black anodized /

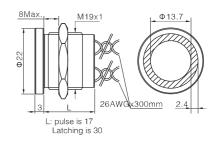
GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

R G Y B W LED color Voltage 5V, 12V, 24V

Rating current 200mA Housing material Aluminum / Stainless steel

Protection level IP68





Electrical function 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching

NT Natural anodized / BU Blue anodized / BK Black anodized / Housing color◆

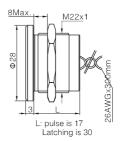
GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

24VAC/DC Voltage Rating current 200mA

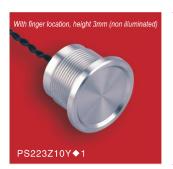
Housing material Aluminum / Stainless steel

IP68, IP69K Protection level





Φ 22mm Picture Specifications Dimensions



Electrical function 1NO (pulse) / 01 NC (pulse) / 10Z: NO latching

NT Natural anodized / BU Blue anodized / BK Black anodized / Housing color◆

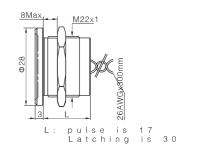
GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

Voltage 24VAC/DC Rating current 200mA

Housing material Aluminum / Stainless steel

Protection level IP68, IP69K





Electrical function 1NO (pulse)/ 01 NC (pulse)/10Z: NO latching

NT Natural anodized / BU Blue anodized / BK Black anodized / Housing color

GD Gold anodized / GN Green anodized / RD Red anodized /

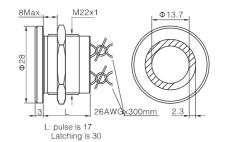
SS Stainless steel

R G Y B W LED color

5V, 12V, 24V Voltage Rating current 200mA

Housing material Aluminum / Stainless steel

Protection level IP68





1NO (pulse)/ 01 NC (pulse)/10Z: NO latching Flectrical function

NT Natural anodized / BU Blue anodized / BK Black anodized /

GD Gold anodized / GN Green anodized / RD Red anodized /

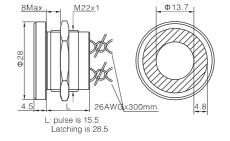
SS Stainless steel

LED color R G Y B W 5V. 12V. 24V Voltage Rating current 200mA

Housing material Aluminum / Stainless steel

Protection level IP68

Housing color





1NO (pulse)/ 01 NC (pulse)/10Z: NO latching Electrical function Housing color

NT Natural anodized / BU Blue anodized / BK Black anodized /

GD Gold anodized / GN Green anodized / RD Red anodized /

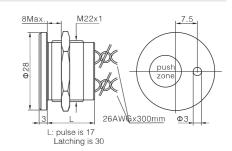
SS Stainless steel

LED color R G Y B W Voltage 5V, 12V, 24V Rating current 200mA Housing material Aluminum

IP68

Protection level

Protection level





Electrical function 1NO (pulse)/ 01 NC (pulse)/10Z: NO latching

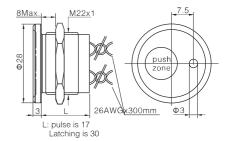
NT Natural anodized / BU Blue anodized / BK Black anodized / Housing color

GD Gold anodized / GN Green anodized / RD Red anodized /

SS Stainless steel

R G Y B W LED color Voltage 5V, 12V, 24V Rating current 200mA Housing material Aluminum

IP68





Features

- \bigstar Finger touch trigger(can be triggered even wearing medical rubber glove)
- ★ Can be triggered by flowing water
- ★ Electrical endurance: 5 million cycles
- ★ Mounting hole size: 16,19,22,25mm
- ★ With momentary, latching or delay function
- ★IP degree: IP67, IP69K



TS Part Number Description

TS☆★□■◆△▲

/3☆★□■◆△▲		
Symbol	Symbol name	Specify
☆	Mounting hole	16: Φ16mm/19: Φ19mm/22: Φ22mm/25: Φ25mm
_	Operator	H: High thin ring / A: Standard thin ring / D: Standard large ring / B: Finger location thin ring / C: Super flat Thin ring /
*	Орегасог	E: Finger location Large ring / F: Super flat Large ring
		10: NO Momentary (High level output type) / 10B: NO Momentary (Low level output type) / 01: NC Momentary (High level output type) /
		01B: NC Momentary (Low level output type) / 10Z: NO Latching (High level output type) / 10ZB: NO Latching (Low level output type) /
	Electrical function	01Z: NC Latching (High level output type) / 01ZB: NC Latching (Low level output type) /
	Electrical function	10T30: NO type, no matter how long you press it, prolongated 30s / 01T30: NC type, no matter how long you press it, prolongated 30s /
		10C30: NO type, prolongated no more than 30s, the close time according to how long you push it. /
		01C30: NC type, prolongated no more than 30s, the close time according to how long you push it.
	Wiring type	Y: wire leading(length 30cm), the length of the lead can be made to order.
•	Housing material	SS: Stainless steel
		Blank: Non-illum.
Δ	LED color	1 LED single light: NR Non-illum./red NG Non-illum./green NO Non-illum./orange NB Non-illum./blue NW Non-illum./white RN red/Non-illum GN green/Non-illum. ON orange/Non-illum. BN blue/Non-illum. WN white/Non-illum.
		2 LED bi-color light: RG red/green RB red/blue BG blue/green WO white/orange GR green/red BR blue/red GB green/blue OW orange/white
A	LED Voltage	Blank Non-illum. / 5VDC / 12VDC / 24VDC

Specification

Max. current/voltage rating: 500mA/24VDC Operating voltage: 5VDC 12VDC 24VDC Electrical endurance: 50 million cycles Insulation Resistance: 600VDC 10M Ω Operating temperature: -25~55 $^{\circ}$ C

Protection level: IP67, IP69K, IK06(Stainless steel)
Terminal type: 22AWG, flat cable, cable length is about 30cm.

LED color: R G Y B W
LED Life: 40000 hours (Reference)
Dropping Way: Internal Resistor

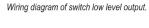
LED status:

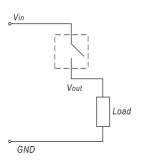
1 LED: LED lights when the output circuit closes.

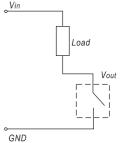
2 LED: When the output circuit open, first LED color lights Second LED lights when the output circuit closes.

Wiring instructions

Wiring diagram of switch high level output:





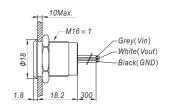


Note: high level output is used to control positive (positive voltage); The low level output is used to control the negative (negative voltage)



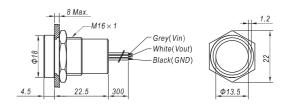
Φ 22mm Picture Specifications Dimensions



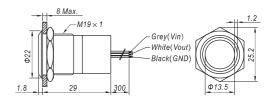






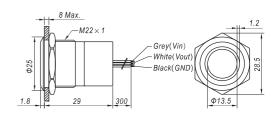






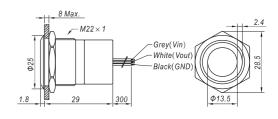


Mounting holeФ22mmSwitch Rating500mA / 24VDCIlluminated typeRing illuminationHousing MaterialStainless steelWire specificationUL1430 22AWGIP DegreeIP67

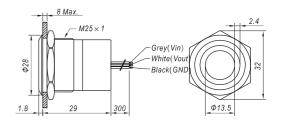




Mounting hole\$\Phi22mm\$Switch Rating\$500mA / 24VDCIlluminated typeRing illuminationHousing MaterialStainless steelWire specification\$UL1430 22AWGIP Degree\$IP67\$







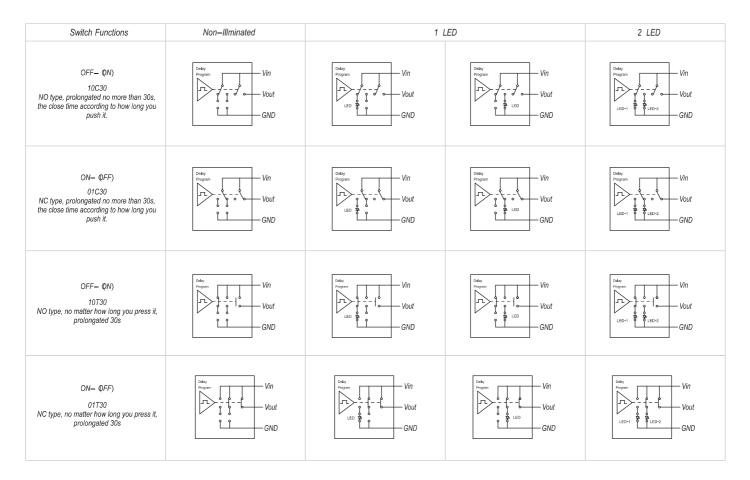


Wiring diagram

Switch Functions	Non–Illminated	1 [ED	2 LED
OFF— ФN) 10 NO-MOM High level output type)	Vin Vout	Vin Vout	Vin Vout	Vout LED-1 FLED-2 GND
OFF- ΦN) 10B NO-MOM Low(level output type)	Vout	Vin	Vin Vout	Vin Vout
ON— ©FF) 01 NC-MOM High level output type)	Vin Vout	Vin Vout GND	Vin Vout GND	Vout LED-1 Vout GND
ON- ©FF) 01B NC-MOM Lov(level output type)	Vout GND	Vin	Vin Vout	LED-1 Vin Vout
OFF—	Vin Vout GND	Vin Vout	Vin Vout	Vin Vout LED-1 GND
OFF– ΦN) 10ZB NO-Latching Low(level output type)	Vin Vout GND	Vin Vout GND	Vin Vout GND	LED-1 S LED-2 Vin GND
ON-	Vin	Vin Vout GND	Vin Vout	Vin Vout Vout
ON— ©FF) 01ZB NC-Latching Low(level output type)	Vin Vout GND	Vin Vout GND	Vin Vout GND	Vin Vout

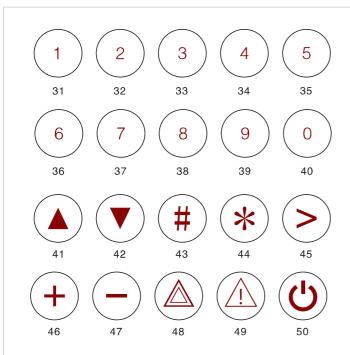


Wiring diagram



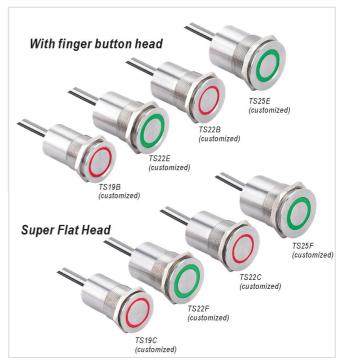
Custom pattern

The following is part of the pattern number query if you need special patterns can be customized according to customer needs



Custom head

The following is part of the custom head for the choice of special head or appearance can be customized according to customer needs





Digital Code Rotary Switches

Characteristics

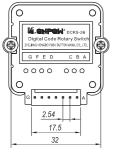
- Full closed structure
 Full closed, have the excellent characteristics of preventing oil and water, the Product Degree: IP65.
- Easy for wire connect
 Use the digital coding, and easy for wire connect, can be connected with the linker.
- Easy to set the numerical value
 Changing the fixing screw position to change the setting.
- Use the gold-clad contact.
 Use the double slide gold-clad contact to keep the contact resistance steady, and improve the work reliability.
- Preventing the wrong signal.
 According to the coding, can be set to INHIBIT terminal and PARITY terminal.
- Firmand reliable, the distortion distance strength is 3Nm.
- Ensure over 50,000 times operations.
- Mainly fit for choosing CNC mechanical panel's wave bands of operation mode, axial direction, rate and the percentage of speed.

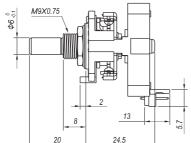


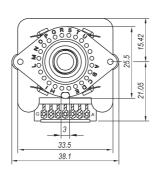
Specifications

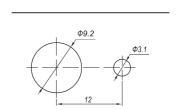
- Rated capacity: 5VDC/0.25A,25VAC/0.5A,50VAC/0.05A
- Insulation Resistance: ≥500MΩ
- Dielectric Strength: 250VAC between term;1500VAC between termand frame.
- Protective Degree: IP65
- Operating Temperature: -20°C ~ 70°C
- Storage Temperature: -40°C ~ 70°C

Shape & Dimensions









Installation Dimensions

State Setting

You can fix the setting crews to the corresponding start and end positions according to the requirements.

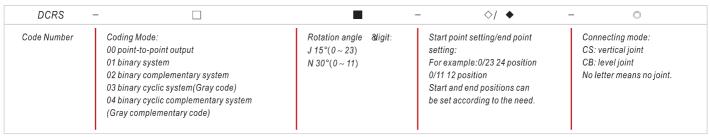
 \odot 30° switching, setting action range is 0 ~ 11

	00	01	02	03	04	05	06	07	08	09	10	11
Start Position	Α	С	Ε	G	1	K	М	0	Q :	S	U	W
End Position	С	Ε	G	1	К	М	0	Q	s	U	W	Α

 \odot 15° switching, setting action range is 0 ~ 23

	00	01	02	03	04	05	06	07	08	09	10	11
Start Position	Α	В	С	D	E	F	G	Н	1	J	K	L
End Position	С	D	Е	F	G	Н	1	J	K	L	М	N
	12	13	14	15	16	17	10	40	20	24	22	23
		,,,			10	17	18	19		21		
Start Position	М	N	0	P	Q	R	S	T :	U	V	W	X .

Implication of Type



Note: The name of coding mode and its corresponding type are different with the old version. Please choose cautiously.



Output Code Chart

INHIBIT: inhibition terminal; PARITY: parity check terminal; COMMON: common terminal; ●: ON operation output

O DCRS-01N-◇/◆-○:30°, binary

I	Digitally	Set	ting V	alues(0~11)								
Terminals	Digitally	0	1	2	3	4	5	6	7	8	9	10	11
Α	1		•		•				•				•
F	2			•	•			•	•			•	•
В	4								•				
Ε	8									•		•	•
С	PARITY			•					•	•			
G	INHIBIT	0	0	0	0	0	0	0	0	0	0	: O	: O
D	COMMON	Cor	nmon	Termi	nal								

 \odot DCRS-00N- \diamondsuit / $lack - \odot$: 30° ,point-to-point output

nald		ng V																					•
" 0	:	1	1	2	: 3	3		4	:	5	1	6	1	7	: .	8	1	9	: 1	10	÷	11	1
1-			1																1		1		_
	🗄 -																				÷		
	. i .		1						: . '		i		ļ				i		1		÷		
																					1		
			-				(•
			-		•												1		1		1		•
			1																		1		•

O DCRS-02N-♦/♦-◎:30°, binary complementary

	Digitally	Set	ting V	alues((0~11)								
Terminals	Digitally	0	1	2	3	4	5	6	7	8	9	10	11
Α	1	•				•						•	
F	2	•	•			•	•			•	•		
В	4	•	•	•	•					•	•	•	•
E	8	•		•	•	•	•	•	•				
С	PARITY			•		•			•	•			•
G	INHIBIT	0	0	0	0	0	0	: O	: O	0	0	0	0
D	COMMON	Cor	nmon	Termi	nal								

DCRS-01J-◇/◆-◎: 15°, binary

Torminals	Digitally	Sett		lues(0	~23)																				
Terminars	Digitally	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	1		•		•		•		•		•				•		•		•		•		•		•
F	2			•	•			•	•			•				•	•			•	•			•	•
В	4					•	•	•	•					•	•	•	•				l		•	•	
E	8									•	•	•		•		•	•								
С	PARITY																	•	•	•	•		•	•	•
G	INHIBIT	0	0	: 0	: 0	: 0	: O	: 0	: ⊚	: 0	: 0	: 0	: O	0	: 0	0	: 0	: 0	: O	: 0	: ⊚	: O	0	: ⊚	: 0
D	COMMON	Com	nmon ī	Termin	al																				

O DCRS-02J-♦/◆-◎: 15°, binary complementary

Torminals	Digitally	Set	tting \	/alue	es(0~	23)		 																						
Terminars	Digitally	0	1	- 1	2	3	4	5	6	7	' :	8	9	10	1	11	12	: 13	14	1	5 :	16	17	18	: 19	9	20	21	22	23
Α	1	•			•		•	 	•			•)		•	.	•		!			•			•		•	
F	2	•	•				•	 •		.		•	•				•	•			!		•				•	•		
В	4	•	•		•			 				•	•					.					•	•						
E	8	•	•		•	•	•	 •	•													•	•	•			•	•	•	•
С	PARITY	•	•		•	•	•	•	•	•		•	•			•	•	•	•											
G	INHIBIT	0	0) :	0	0	: 0	 o :	0	: @) :	0	: ⊚	: ©) !	0	0	: ⊚	0) : () :	0	0	: 0	: () :	0	0	: 0	: 0
D	COMMON	Cor	mmor	n Ter	mina	I																								

DCRS-03J-♦/♦-◎: 15°, binary cyclic (Gray code)

Torminals	Digitally		ing Va	lues(0	~23)																				
	Digitally	0	1	2	3	4	5	6	7	8	: 9	10	11	12	: 13	14	15	16	17	18	19	20	21	22	23
Α	1	l	•				•				•	•				•			•	•			•	•	
F	2			•	•	•	•					•	•	•	•					•	•	•	•		
В	4						•			•	•	•	•												
E	8									•	•	_							•	•	•	•	•	•	
С	PARITY																		•	•	•	•	•	•	
G	INHIBIT	0	0	: O	: O	0	0	: ⊚	· O	: O	: 0	: O	0	0	: O	0	: 0	:	0	: 0	· O	· 0	0	: O	: 0
D	COMMON	Con	nmon	Termin	al																				

O DCRS-04J-♦/♦-◎: 15°, binary cyclic complementary(Gray complementary code)

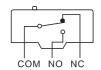
Torminolo	Digitally	Set	ting V	'alues	s(0~2	23)																									
Terminals	Digitally	0	1	2	2	3	4		5	6	7		8	9	10)	11	12	: 13	1	4	15	: 16	17	: 1	8	19	20	21	22	23
Α	1					•	•)	•				•	•				•	•				•	•			
F	2	•	•							•			•	•						•	•	•	•	•						•	•
В	4	•	•	•				.										•	•	•	•	•	•	•	•	•					
E	8	•	•	•			•	•		•)								.			1								
С	PARITY	•	•	•		•	•	•		•)	•	•			•	•	•			•	1								
G	INHIBIT	0	: ⊚	: () :	0	: O	: (0 :	0	: €) :	0	0	: @) :	0	0	: ⊚	: (0 :	0	: ⊚	: ©	: (0 :	0	0	0	0	: ⊚
D	COMMON	Cor	nmon	Term	ninal																										



Product Feature

- Wide range of actuators; and the operating position can be adjusted.
- High opening and closing capacity (15A)
- High precision
- Wide range of operating speed

Contact Diagram



Model Code

LTM−1□ □: Transmission Type

306: Plunger Button Type

307: Plunger Long Button Type

308: Roller Plunger type

309: Cross roller plunger type

701: Lever Type

702: Short Lever Type

703: Roller Lever Type

704: Roller Short Lever Type

705: Roller Long Lever Type

Specifications

Operation Speed	0.01mm to 1m/sec(Plunger type)
Operation Frequency	Mechanical: times/minute Electrical: times/minute
Contact Resistance	15m Ω Max.(in the initial)
Insulation Resistance	Over 100MΩ (Below 500VDC)
	1,000VAC, 50/60Hz for 1 minute between discontinuous terminal
Dieletric Strength	1,500VAC, 50/60Hz for 1minute between current carrying parts and non-current carrying parts
	1,500VAC, 50/60Hz for 1minute between Terminal and GND
Vibration Resistance	10 to 50Hz: 1.5mm bi-amplitude
Shock Resistance	Mechanical Durability: 1,000m/Sec²(About 100G'S) Malfunction Durability: 300m/Sec²(About 30G'S)
Operation Temperature	In use: 1 0 ~ +80°C(No freezing)
Operation Humidity	Below 95%RH
Life	Mechanical: Above 10,000,000 operations Electrical: Above 500,000 operations
Weight	22 to 58g
IP Degree	IP65

Ratings

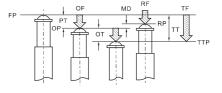
	Noi	n-Induct	ive Loa	d(A)	l	Inductive	Load ((A)	Inrush o	urrent(A)
Rated voltage	Resistiv	e Load	Lamp	Load	Inducti	ve Load	Moto	Load	initusti ci	urreni(A)
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	15	5	3	1.5	1	15	5	2.5		
250VAC	18	5	2.5	1.25	1	15	3	1.5		
500VAC	3		1.5	0.75	2	.5	1.5	0.75	Below	Below
8VDC	15	5	3	1.5	1	15	5	2.5	30	15
14VDC	15	5	3	1.5	1	10	5	2.5		
30VDC	6(2	2)	3	1.5		5	5	2.5		
125VDC	0	4	0.4	0.4	0.	05	0.05	0.05		
250VDC	0	2	0.2	0.2	0.	03	0.03	0.03		

Notes: 1. The power factor of Inductive Load is over 0.4(AC). And usually the time constant is below 7 msec(DC).

2. The inrush current of Lamp Load is 10 times as than in stable condition, and Motor current is 6 times as than in stable condition.

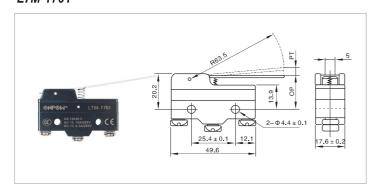
Operating Characteristics

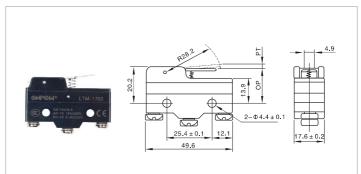
Туре	LTM-1701	LTM-1702	LTM-1703	LTM-1704	LTM-1705	LTM-1306	LTM-1307	LTM-1308 LTM-1309
OF Max.	70g	160g	1 00g	160g	10g	350g	350g	350g
RF Min.	14g	28g	22g	42g	3g	114g	114g	114g
PT Max.	10mm	3mm	7.1mm	2.7mm	20mm	0.4mm	0.4mm	0.4mm
OT Min.	5.6mm	2mm	4mm	2.4mm	5.6mm	1.6mm	5.5mm	3.58mm
MD Max.	1.27mm	1mm	1.02mm	0.5mm	3mm	0.05mm	0.05mm	0.05mm
PF Max.	28.2mm	24.8mm	36.5mm	32.5mm				
OP	19±0.8	19±0.4	30.2±0.8	30.2±0.4	19±0.8	21.5±0.5	21.8 0.8	33.4±1.2



- FP: Free Position OP: Operating Position
- PT: Pre-Travel
- OF: Operating Force OT: Over Travel
- MD: Movement Differential
- RF: Release Force RP: Release Position
- TT: Total Travel
- TF: Total travel Force
- TTP: Total Travel Position

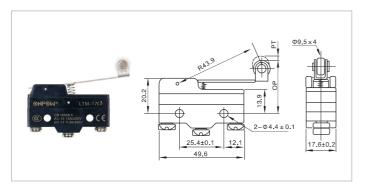
LTM-1701 LTM-1702



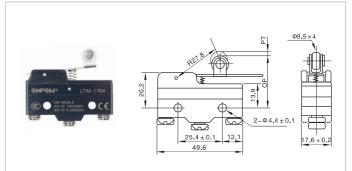




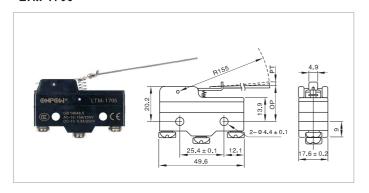
LTM-1703



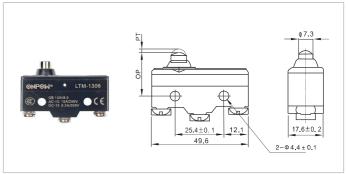
LTM-1704



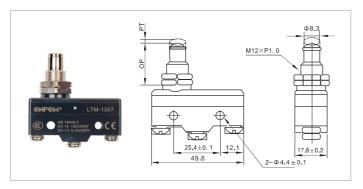
LTM-1705



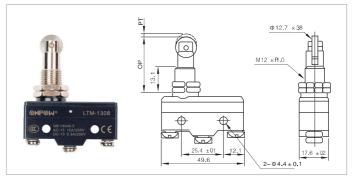
LTM-1306



LTM-1307



LTM-1308



LTM-1309

