

CHNANMA[®]

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About NanMa



Yueqing Nanma Electrical Appliance Co., Ltd., neighbor Wenzhou Yangdang Mountain and Qili port. Founded in 2001, after more than ten years of continuous development, has become the domestic industrial control switch, equipment automation control electrical switches and leading enterprises.

Nan Ma is committed to the stroke switch, micro switch, limit switch, foot switch, lifting height limiter, limiter and relays and other automation equipment R & D and production. Products in strict according to ISO9001 international quality system certification standards for production have passed the national certification by the broad user trust. The company pay the spirit of "customer first quality and cheap, quick delivery, perfect after-sales service" for the purpose. You full service, wholeheartedly welcome customers at home and abroad to cooperate hand in hand, create a better future of Ma Nan.



Catalog

| | | |
|---|---|--|
| DXZ Series Limit Device P/01  | WL Limit Switch P/05  | LSA Limit Switch P/08  |
| HL Limit Switch P/10  | NM-8 Limit Switch P/12  | NM-7 Micro Switch P/14  |
| ADZ-10GW Micro Switch P/16  | NM-1 Micro Switch P/18  | V15 Micro Switch P/21  |
| NM-3 Compact Prewired Limit Switch P/23  | NT Toggle Switch P/25  | Foot Switch P/27  |
| XCK-M/J Limit Switch P/34  | XCK-N/P Limit Switch P/37  | Relay Series P/39  |

Features

- Double-throw type of limit switch is widely used
- Wiring is convenient and clear
- High mechanical strength
- Structure preventing on water and pressure
- Reliable parts with spring position is available 1 to 3 to easy to maintain
- Various of actuators is taken convenience for using
- Self-cleaning contact arms has double-spring, so it has long mechanical life
- Selective K05 x 1.5 cable glands

Contact Form



Ratings

| Rated voltage | Noninductive Load(A) | | | Inductive Load(A) | | |
|---------------|----------------------|-----------|----------------|-------------------|-----|-----|
| | Resistance Load | Lamp Load | Inductive Load | NC | NO | NC |
| 125VDC | 10 | 6 | 1.5 | 10 | 6 | 2.0 |
| 250VDC | 5 | 3 | 0.8 | 5 | 3 | 1.0 |
| 500VDC | 1 | 0.5 | 0.1 | 1 | 0.5 | 0.1 |
| 5VDC | 10 | 6 | 3 | 10 | 6 | 6 |
| 14VDC | 10 | 6 | 3 | 10 | 6 | 6 |
| 24VDC | 6 | 3 | 1 | 6 | 3 | 4 |
| 125VAC | 0.8 | 0.2 | 0.2 | 0.8 | 0.2 | 0.2 |
| 250VAC | 0.4 | 0.1 | 0.1 | 0.4 | 0.1 | 0.1 |

| | | |
|---------------|----|----------------------|
| Surge current | NC | 30A under 20μs under |
| | NO | 20A under |

- NOTES: 1. Inductive load has a power factor of 0.4 min (AC) and a time constant of 7 msec max (DC)
 2. Lamp load has an inrush current of 10 times the steady-state current while motor load has an inrush current of 6 times the steady-state current.
 3. Product with spring is usable range of operating part is within one third of the whole spring length from the forward of spring.

Characteristics

| | |
|----------------------|--|
| Operatespeed | 1mm-2m/s |
| Operatesionfrequency | Mechanical 120operations/hrs Electrical 30operations/hrs |
| Contactresistance | 150mΩ max (initial value) |
| Insulationresistance | 100MΩ min (at 500VDC) |
| Dielectric strength | 1500VAC/500Hz for 1 minute between terminals of the same polarity 1500VAC/500Hz for 1 minute between current-carrying and non-current-carrying metal parts 1500VAC/500Hz for 1 minute between each terminal and ground |
| Vibration | 10-55Hz, 1.5mm double amplitude |
| Shock | Mechanical durable: 1400m/s ² (about 100G x) Malfunction: 300m/s ² (about 30G x) |
| Ambienttemperature | -10 ~ +60°C (with no icing) |
| Humidity | <95% RH |
| Life | Mech: at least 10,000 operations at rated (under rated DT) Electrical: 100,000 operations above |
| Weight | About 27g |
| Degree of protection | IEC specification IP66 |

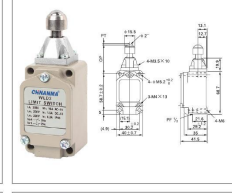
Operating Characteristics

| Model | WLC42 | WLC42 | WLC42 | WLC42 | WLD | WLD1-2Z | WLD3 | WLN1 | WL |
|---------|----------|----------|----------|-------|--------|---------|-----------|-------|---------------------------------|
| OP max. | -2 | -2 | -2 | 2.55N | 26.67N | 26.67N | 26.67N | 1.47N | CA32-41 CA32-42 CA32-44 |
| RF min. | 0.49N | 0.49N | 0.49N | 0.1N | 8.92N | 8.92N | 8.92N | - | CA32-44 |
| PT max. | 25° ± 5° | 25° ± 5° | 25° ± 5° | 1.7mm | 1.7mm | 1.7mm | 40 ± 20mm | - | RF: max 11.77N FE: 50° ± 25° |
| OT min. | 60° | 60° | 60° | 6.4mm | 6.4mm | 4mm | - | - | Switch OT max 38° |
| MO max. | 16° | 16° | 16° | 16mm | 16mm | 16mm | - | - | - |

WLD2



WLD3



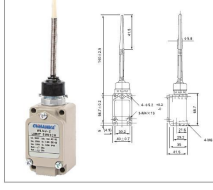
WLN1



WLN1-3D



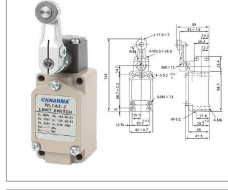
WLN1-2



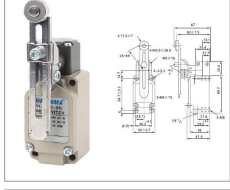
WLN1-S2



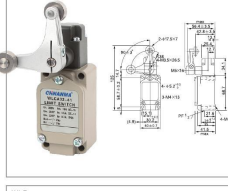
WLC42-2



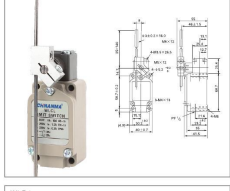
WLC42-2Q



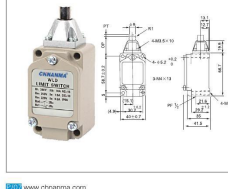
WLC42-41



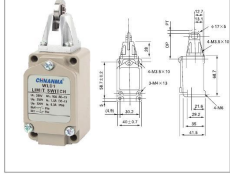
WLC42



WLD



WLD1



Features

- Strong metal outer shell, swing arm max. ± 95°
- Stainless steel roller wheel, punch and spring
- Selective K15 x 1.5 cable glands

Contact Form



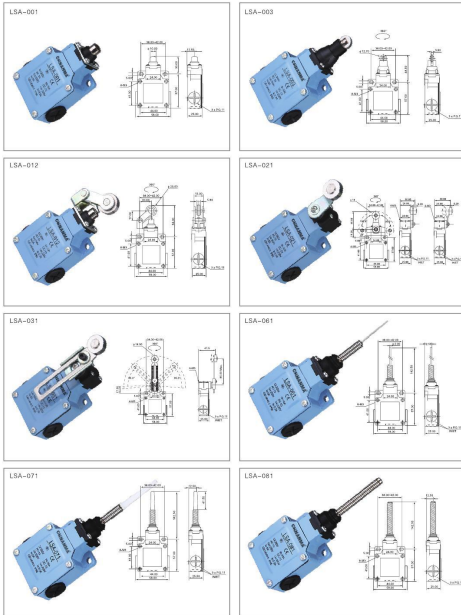
Characteristics

| | |
|------------------------------|--|
| Double Break Mechanism | 150xNVC force break snap action |
| Rated Voltage | 100V AC, 125, 250V AC, 220V AC, 380V AC. For inductive load, Cos φ = 0.4 |
| Contact Resistance | 250mΩ max (initial value) |
| Insulation Resistance | 100MΩ min (at 500VDC) |
| Dielectric Strength | 1500VAC/500Hz for 1 minute between terminals of the same polarity 1500VAC/500Hz for 1 minute between current-carrying and non-current-carrying metal parts 1500VAC/500Hz for 1 minute between each terminal and ground |
| Electrical Life | 500,000 at 10A, 250VAC resistive |
| Mechanical Life | 10,000,000 operations max (under rated conditions) |
| Operating Speed | 5mm/s to 0.5m/s |
| Degree of Protection | IP66 |
| Ambient Temperature | Max 3°C over ambient temperature at rated voltage/current |
| Conformed Standards | conform: EN 50041, IEC 337-1, VDE 0660 |
| Operating Temperature | -5°C ~ +65°C (with no icing) |
| Storage Temperature | -25°C ~ +65°C (with no icing) |
| Ambient Coating Humidity | 95% RH Max. |
| Shock Resistance | Mechanical durable: 1000m/s ² min. Malfunction: 300m/s ² min. |
| Vibration Frequency | Malfunction: 10 to 55Hz, 1.5mm double amplitude |
| Terminal Spacing | 6-8 mm |
| Other Spacing Terminal Force | Cover: 13-14 kgf-cm/lead 8-9 kgf-cm/Mounting: 50-60 kgf-cm |
| Ball Wire Diameter | φ 2 Max |
| Cable Diameter | φ 12 Max (IP 65: cable φ 8-9) |

Operating Characteristics

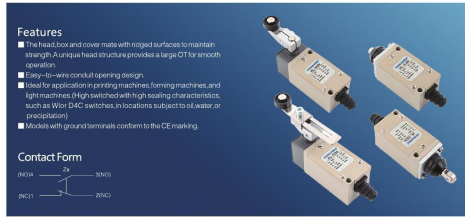
| Operating Characteristics | Model | LSA-001 | LSA-003 | LSA-012 | LSA-021 | LSA-041 | LSA-051 | LSA-061 | LSA-071 | LSA-081 |
|---------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Operating force | OP max. | 7.84N | 7.84N | 7.84N | 3.92N | 3.92N | 3.92N | 1.47N | 1.47N | 1.47N |
| Release force | RF min. | 3.92N | 3.92N | 3.92N | 0.98N | 0.98N | 0.98N | 0.49N | 0.49N | 0.49N |
| Pre-travel | PT max. | 1.8mm | 1.8mm | 1.8mm | 20° | 20° | 20° | 30mm | 30mm | 30mm |
| Tripping position | TP ± 10% | 2.0mm | 2.0mm | 2.0mm | 22.5° | 22.5° | 22.5° | 22.5° | 22.5° | 22.5° |
| Movement Allowance | MO max. | 1.2mm | 1.2mm | 1.2mm | 15° | 15° | 15° | 14° | 14° | 14° |
| Over-travel | OT min. | 4.0mm | 4.0mm | 4.0mm | 75° | 75° | 75° | 20mm | 20mm | 20mm |
| Total travel | TT min. | 5.8mm | 5.8mm | 5.8mm | 90° | 90° | 90° | 50mm | 50mm | 50mm |
| Roller indexing | | | | | 22.5° | 22.5° | 22.5° | | | |

CHNANMA® LSA Limit Switch



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CHNANMA® HL Limit Switch



Features

- The head, base and cover made with rugged surfaces to sustain strength. A wide base to ensure provides a large OT for smooth operation.
- Single-throw or double-throw design.
- Ideal for application in printing machines, forming machines and light machines. High switched with high loading characteristics. Such as limit switch in locations subject to oil, water or precipitation.
- Models with ground terminals conform to the CE marking.

Contact Form

(NO) — (NO)
 (NC) — (NC)

Ratings

| Rated voltage | Noninductive Load(A) | | | Inductive Load(A) | | |
|---------------|----------------------|-----------|------------|-------------------|-----------|------------|
| | Resistance Load | Lamp Load | Motor Load | Resistance Load | Lamp Load | Motor Load |
| | NC | NO | NC | NO | NC | NO |
| AC125V | 5 | 1.5 | 0.7 | 3 | 2 | 1 |
| AC250V | 5 | 1 | 0.55 | 3 | 1.5 | 0.8 |
| DC12V | 5 | 3 | 4 | 3 | 4 | 3 |
| DC24V | 5 | 3 | 4 | 3 | 4 | 3 |
| DC125V | 0.4 | 0.2 | - | - | - | - |
| DC250V | 0.4 | 0.2 | - | - | - | - |

Surge current: NC 24A under, NO 12A under

Characteristics

Degree of protection: IP65
 Life: Mechanical: 1,000,000 operations above Electrical: see figure below
 Allowable operating speed: 5m/s ± 0.5m/s
 Allowable operating frequency: Mechanical: 120 operations/minute Electrical: 30 operations/minute
 Contact resistance: 25mΩ max. (initial value)
 Insulation resistance: 100MΩ min. (at 50VDC)
 Dielectric strength: AC100V/5000Hz/1 minute between terminals of the terminals
 AC100V/5000Hz/1 minute between the charged metal parts and the ground
 AC100V/5000Hz/1 minute between each terminal and the charged metal parts
 Rated frequency: 50/60Hz
 Vibration/ Misoperation: 10-55Hz/1.5mm double amplitude
 Shock: Measurement Less than 1.02mm/Manufacture: 300G/5C
 Ambient Temp: -5°C~+55°C(With no icing)
 Ambient humidity: 35%~95% RH
 Quality: About 100~150g

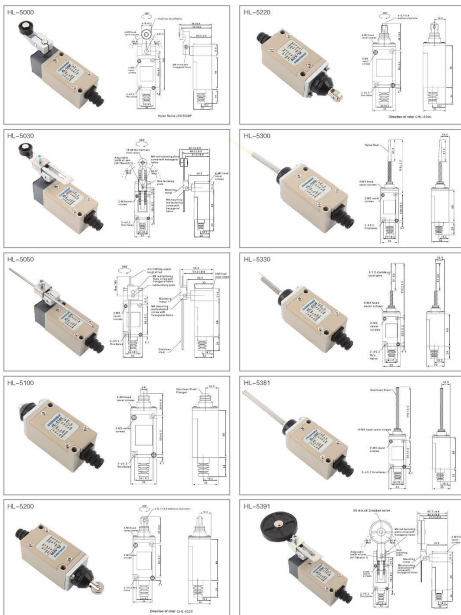
Operating Characteristics

| Model | HL-5000 | HL-5000 | HL-5050 | HL-5391 | HL-5100 | S100/S220 | S300/S330/S381 | HL-6030 | HL-5950 |
|---------|---------|---------|---------|---------|------------|------------|----------------|---------|---------|
| OF max. | 7.35N | 7.35N | 7.35N | 7.35N | 8.83N | 8.83N | 8.83N | 1.47N | 1.60N |
| RF min. | 0.98N | 0.98N | 0.98N | 0.98N | 1.47N | 1.47N | 1.47N | 0.41N | 0.22N |
| PT max. | 20° | 20° | 20° | 20° | 1.5mm | 1.5mm | 30mm | - | - |
| OT MIN. | 15° | 15° | 15° | 15° | 3mm | 4mm | - | - | - |
| MD max. | 12° | 12° | 12° | 12° | 3mm | 1mm | - | - | - |
| OP | - | - | - | - | 30 ± 0.8mm | 40 ± 0.8mm | - | - | - |

Note: The data were measured using the arm length of the lever length of 3mm.

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CHNANMA® HL Limit Switch



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CHNANMA® NM-8 Limit Switch



Features

- Compact new design approximately 1/3 the size of OMRON vertical limit switches.
- Structure enables the terminal section to be fully opened for easy wiring.
- Degree of protection IP65

Contact Form

(NO) — (NO)
 (NC) — (NC)

Ratings

| Rated voltage | Noninductive Load(A) | | | Inductive Load(A) | | |
|---------------|----------------------|-----------|------------|-------------------|-----------|------------|
| | Resistance Load | Lamp Load | Motor Load | Resistance Load | Lamp Load | Motor Load |
| | NC | NO | NC | NO | NC | NO |
| 125VDC | 5 | 1.5 | 0.7 | 3 | 2 | 1 |
| 250VDC | 5 | 1 | 0.5 | 3 | 1.5 | 0.8 |
| 5VDC | 5 | 3 | 3 | 5 | 4 | 3 |
| 14VDC | 5 | 3 | 3 | 4 | 4 | 3 |
| 35VDC | 5 | 3 | 3 | 4 | 4 | 3 |
| 125VDC | 0.4 | 0.4 | 3 | 4 | 4 | 3 |
| 250VDC | 0.2 | 0.2 | - | - | - | - |

Surge Current: NC below 24A, NO below 12A

Characteristics

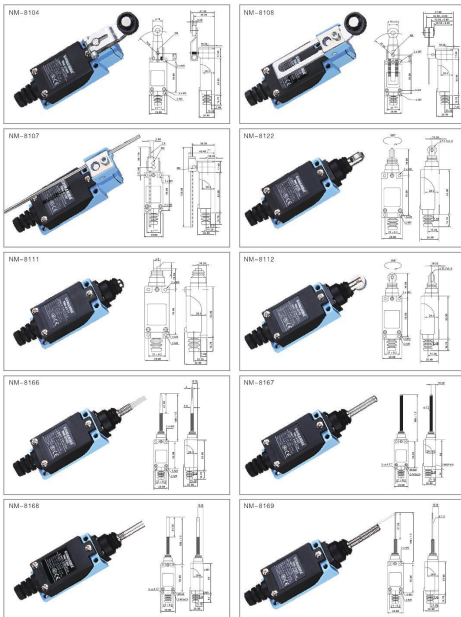
Operating speed: 0.5mm~50mm/sec
 Operation frequency: Mechanical: 120 operations/minute Electrical: 30 operations/minute
 Contact resistance: 25mΩ max. (initial value)
 Insulation resistance: 100MΩ min. (at 50VDC)
 Dielectric strength: 1000VAC/5000Hz for 1 minute between terminals of the terminals
 1000VAC/5000Hz for 1 minute between current-carrying and non-current-carrying metal parts
 1000VAC/5000Hz for 1 minute between each terminal and ground
 Vibration: 10-55Hz/1.5mm double amplitude
 Shock: Mechanical durable: 1,000G/50 (About 1000G)
 Manufacturing: 300G/5C (About 300G)
 Ambient temperature: -5~+55°C(With no icing)
 Humidity: <95% RH
 Life: Mechanical: 1,000,000 operations above Electrical: 500,000 operations above
 Weight: About 100g/150g
 Degree of protection: IP65

Operating Characteristics

| Model | NM-8104 | NM-8107 | NM-8108 | NM-8111 | NM-8112 | NM-8122 | NM-8166 | NM-8167 | NM-8168 | NM-8169 |
|---------|---------|---------|---------|------------|---------|---------|---------|---------|---------|---------|
| OF MAX. | 5.88N | 5.88N | 7.84N | 9.8N | 9.8N | 9.8N | 9.8N | 0.82N | 0.88N | 0.88N |
| RF MIN. | 0.45N | 0.63N | 0.45N | 2.94N | 2.94N | 2.94N | 2.94N | - | - | - |
| PT MAX. | 20° | 20° | 20° | 1.5mm | 1.5mm | 1.5mm | 30mm | 30mm | 30mm | 30mm |
| OT MIN. | 75° | 75° | 75° | 4mm | 4mm | 4mm | - | - | - | - |
| MD MAX. | 15° | 15° | 15° | 1.2mm | 1.2mm | 1.2mm | - | - | - | - |
| TT MIN. | 90° | 90° | 90° | 5.5mm | 5.5mm | 5.5mm | - | - | - | - |
| OP | - | - | - | 26 ± 0.8mm | - | - | - | - | - | - |

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CHNANMA NM-8 Limit Switch



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CHNANMA NM-7 Micro Switch



Features

- Phosor Switches with Built-in Basic switches for high repeatability and stability of 10000 operations minimum.
- Panel mount versions have the same operating position as Z basic switch.
- Suitable for applications demanding higher mechanical strength, dustproof/drip-proof properties than those on basic switches.

Contact Form

ECOM1 ——— NC
————— NO

Ratings

| Rated voltage | Noninductive Load(A) | | | Inductive Load(A) | | |
|---------------|----------------------|-----------|------------|-------------------|------|------|
| | Resistance Load | Lamp Load | Motor Load | NC | NO | NO |
| 125VAC | 10 | 3 | 1.5 | 10 | 5 | 2.5 |
| 250VAC | 10 | 2.5 | 1.25 | 10 | 3 | 1.5 |
| 480VAC | 3 | 1.5 | 0.75 | 2.5 | 1.5 | 0.75 |
| 8VDC | 10 | 3 | 1.5 | 6 | 6 | 6 |
| 14VDC | 10 | 3 | 1.5 | 6 | 6 | 6 |
| 28VDC | 6 | 3 | 1.5 | 6 | 6 | 6 |
| 125VDC | 0.5 | 0.4 | 0.4 | 0.05 | 0.05 | 0.05 |
| 250VDC | 0.25 | 0.2 | 0.2 | 0.03 | 0.03 | 0.03 |

NOTES: 1 Inductive load has a power factor of 0.4 in (AC) and a time constant of 7 msec max (DC).
2 Lamp load has an inrush current of 10 times the steady-state current.
3 Motor load has an inrush current of 8 times the steady-state current.
4 Product life is based on length of operating parts within one third of the whole spring length from the front end of spring.

Characteristics

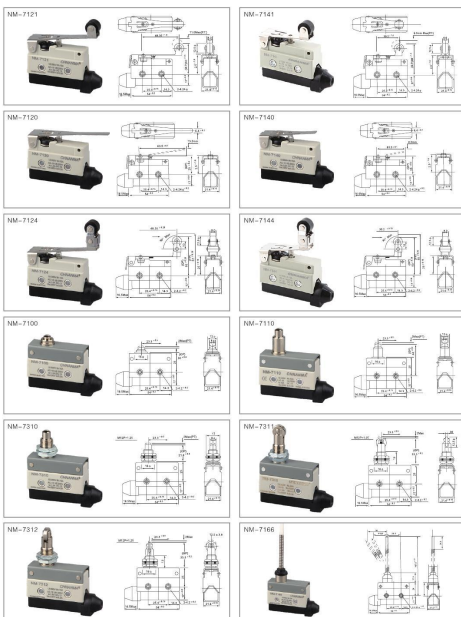
Operation speed: 0.01mm – 50cm/sec
 Operation frequency: Mechanical: 120 operations/minute Electrical: 30 operations/minute
 Contact resistance: 15mΩ max (initial value)
 Insulation resistance: 100MΩ min (at 500VDC)
 1000VAC 50/60Hz for 1 minute between terminals of the same polarity
 Dielectric strength: 1500VAC 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
 1500VAC 50/60Hz for 1 minute between each terminal and ground
 Vibration: Action 10–55Hz, 1.5mm peak swing
 Shock: Mechanical durable: 1000mSec (about 1000G)
 Malfunction: 30mSec (about 300G)
 Ambient temperature: –10 – 80°C (With no icing)
 Humidity: <95% RH
 Life: Mechanical: 10,000,000 operations above (at rated or) Electrical: 100,000 operations above
 Weight: About 60g
 Degree of protection: IP40

Operating Characteristics

| Model | NM-7100 | NM-7110 | NM-7110 | NM-7111 | NM-7112 | NM-7120 | NM-7140 | NM-7141 | NM-7141 | NM-7142 | NM-7142 | NM-7166 |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|---------|
| GF MAX. | 5.88N | 5.88N | 5.88N | 5.88N | 5.88N | 1.47N | 2.150N | 1.765N | 2.352N | 1.96N | 2.744N | 1.170N |
| RF MIN. | 0.98N | 0.98N | 0.98N | 0.98N | 0.98N | 0.392N | 0.49N | 0.794N | 0.588N | 0.98N | 0.98N | 0.98N |
| PF MAX. | 2.0mm | 2.0mm | 2.0mm | 2.0mm | 2.0mm | 13.5mm | 8.5mm | 11.0mm | 6.5mm | 11mm | 6.5mm | 250mm |
| QT MIN. | 0.8mm | 5.0mm | 4.0mm | 4.0mm | 4.0mm | 4.0mm | 2.5mm | 3.0mm | 2.0mm | 3.0mm | 2.5mm | 11mm |
| ND MAX. | 0.8mm | 0.8mm | 0.8mm | 0.8mm | 0.8mm | 3.2mm | 2.0mm | 2.4mm | 1.5mm | 2.4mm | 1.5mm | — |
| QP | 30.5x0.8mm | 44.1x1.2mm | 23.8x1.2mm | 33.3x1.2mm | 33.3x1.2mm | 25.4x1.1mm | 25.4x1.1mm | 40.5x1.1mm | 10x1.2mm | 10x1.2mm | 10x1.2mm | — |
| EP | — | — | — | — | — | 30mm | 32mm | — | 40mm | — | 50mm | — |

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CHNANMA NM-7 Micro Switch



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CHNANMA ADZ-10GW Micro Switch



Features

- High switch on and off capacity (15A)
- High capacity
- IP accuracy up to ±0.4mm
- Wide range of operation speed

Characteristics

Operation speed: 0.1mm to 1cm/sec
 Action frequency: Mechanically 240 times/minute Electrically 20 times/minute
 Contact resistance: Under 15mΩ (initial)
 Insulation resistance: 100MΩ above (at 500VDC)
 Bearing voltage: Non-contact and 1000VAC 50/60Hz for one minute
 Current parts and noncurrent parts and end and connect position: 1.500VAC 50/60Hz for one minute
 Vibration: 10 to 55Hz/2.15mm
 Hitting: Machine: 1.000mSec (about 100G.S) Action: 300mSec (about 30G.S)
 Ambient temperature: –25°C to +80°C
 Humidity: 35% to 95% RH
 Service life: Mechanically 10,000,000 times above (at rated or) Electrically 500,000 times above
 Weight: About 30–50g
 Protection structure: Protection structure IEC specification IP30

Rated Number

| Rated voltage | Non-electrical carry | | Bulb carry | | Electrical carry | | Electrical carry | | Motor carry | |
|---------------|----------------------|------|------------|------|------------------|------|------------------|------|-------------|----|
| | NC | NO | NC | NO | NC | NO | NC | NO | NC | NO |
| 125VAC | 10 | 2 | 1 | 1 | 6 | 3 | 3 | 1.5 | — | — |
| 250VAC 10 | 10 | 1.5 | 0.7 | 0.7 | 4 | 2 | 2 | 1 | — | — |
| 8VDC | 10 | 3 | 1.5 | 1.5 | 6 | 5 | 5 | 2.5 | — | — |
| 14VDC | 10 | 3 | 1.5 | 1.5 | 6 | 5 | 5 | 2.5 | — | — |
| 30VDC | 6 | 3 | 1.5 | 1.5 | 4 | 3 | 3 | 1.5 | — | — |
| 125VDC | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 | 0.05 | — | — |
| 250VDC | 0.25 | 0.25 | 0.25 | 0.25 | 0.03 | 0.03 | 0.03 | 0.03 | — | — |

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CHNANMA® V15 Micro Switch



Ratings

| Item | Non-inductive Load(A) | | Inductive Load(A) | | Surge Current |
|-------|-----------------------|-----------|-------------------|------------|---------------|
| | Resistive Load | Lamp Load | Inductive Load | Motor Load | |
| Spec. | NC | NO | NC | NO | NC |
| | NO | NC | NO | NC | NO |
| | NO | NC | NO | NC | NO |
| 10A | 250VAC | 10 | 1.5 | 6 | 2 |
| | 110VAC | 10 | 3 | 6 | 3 |
| | 125VDC | 6 | 0.1 | 0.6 | 0.1 |
| 16A | 250VAC | 16 | 2 | 10 | 3 |
| | 110VAC | 16 | 4 | 10 | 4 |
| | 125VDC | 10 | 0.1 | 0.6 | 0.1 |
| 31A | 250VAC | 21 | 3 | 12 | 4 |
| | 110VAC | 21 | 5 | 12 | 7 |
| | 125VDC | 14 | 0.1 | 0.6 | 0.1 |
| | 250VAC | 0.3 | 0.05 | 0.3 | 0.05 |
| | 110VAC | 0.3 | 0.05 | 0.3 | 0.05 |
| | 125VDC | 0.3 | 0.05 | 0.3 | 0.05 |

Characteristics

| Item | Type | V-10 | V-16 | V-21 |
|--------------------------|--|---|--------------------------------|------|
| Operation speed | | 0.1mm-1ms (button type) | | |
| Operation frequency | | Mechanical: 240 operations/min Electrical: 20 operations/min | | |
| Insulation resistance | | 100MΩ above 500VDC | | |
| Corrosion resistance | | 15mΩ max (initial value) | | |
| Non-continuous tolerance | | 1,000VAC, 50/60Hz for 1 minute | | |
| Withstand voltage | current-carrying and non-current-carrying resistance between terminal and casing | 500VAC, 50/60Hz for 1 minute | 2,000VAC, 50/60Hz for 1 minute | |
| Vibration | Misoperation | 10 to 55Hz, 1.5mm peak swing | | |
| Shock | Durable | 1000m/s² Max (About 100G) | | |
| | Misoperation | 200m/s² Max (About 100G) | 300m/s² Max (About 100G) | |
| Life | Mechanical | 10,000,000 operations/min | | |
| | Electrical | 100,000 operations/min | | |
| Temperature | | -10 to +55°C (with no icing) | | |
| Humidity | | <85%RH(+5-35°C) | | |



Operating Characteristics

| Model | V-15 | V-151 | V-152 | V-153 | V-154 | V-155 | V-156 |
|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| OP. MAX. | 1.98N | 1.98N | 1.22N | 0.69N | 1.22N | 2.55N | 1.22N |
| RF. MIN. | 0.49N | 0.49N | 0.14N | 0.06N | 0.14N | 0.49N | 0.14N |
| PT. MAX. | 1.2mm | 1.6mm | 4.0mm | 9.0mm | 4.0mm | 1.6mm | 4.0mm |
| OT. MIN. | 1.5mm | 0.8mm | 1.6mm | 2.9mm | 1.6mm | 0.8mm | 1.6mm |
| MD. MAX. | 0.4mm | 0.6mm | 1.5mm | 2.8mm | 1.5mm | 0.6mm | 1.5mm |
| CP. | 14.7 ± 0.4mm | 15.2 ± 0.5mm | 15.2 ± 1.2mm | 15.2 ± 0.6mm | 16.7 ± 1.2mm | 20.7 ± 0.6mm | 20.7 ± 1.2mm |

CHNANMA® V15 Micro Switch

V-15-1C25

Operating Characteristics V-21-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 40G | 200g |
| RF. max. | 50g | 50g |
| PT. max. | 1.2mm | 4.0mm |
| OT. max. | 1.5mm | 1.6mm |
| MD. max. | 0.6mm (Stroke) | 0.6mm (Stroke) |
| CP. | 14.2 ± 0.3mm | - |

V-151-1C25

Operating Characteristics V-21-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 40G | 200g |
| RF. max. | 50g | 50g |
| PT. max. | 1.6mm | 4.0mm |
| OT. max. | 1.6mm | 1.6mm |
| MD. max. | 0.8mm (Stroke) | 0.8mm (Stroke) |
| CP. | 15.2 ± 0.5mm | - |

V-152-1C25

Operating Characteristics V-20-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 21g | 14g |
| RF. max. | 21g | 14g |
| PT. max. | 4.0mm | 4.0mm |
| OT. max. | 2.0mm | 1.6mm |
| MD. max. | 0.8mm (Stroke) | 0.8mm (Stroke) |
| CP. | 15.2 ± 0.5mm | - |

V-153-1C25

Operating Characteristics V-20-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 130g | 80g |
| RF. max. | 130g | 80g |
| PT. max. | 4.0mm | 4.0mm |
| OT. max. | 1.6mm | 1.6mm |
| MD. max. | 0.8mm (Stroke) | 0.8mm (Stroke) |
| CP. | 15.2 ± 0.5mm | - |

V-154-1C25

Operating Characteristics V-20-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 21g | 14g |
| RF. max. | 21g | 14g |
| PT. max. | 4.0mm | 4.0mm |
| OT. max. | 2.0mm | 1.6mm |
| MD. max. | 0.8mm (Stroke) | 0.8mm (Stroke) |
| CP. | 15.2 ± 0.5mm | - |

V-155-1C25

Operating Characteristics V-20-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 45G | 245g |
| RF. max. | 50g | 50g |
| PT. max. | 1.5mm | 4.0mm |
| OT. max. | 1.6mm | 1.6mm |
| MD. max. | 0.6mm (Stroke) | 0.6mm (Stroke) |
| CP. | 15.2 ± 0.5mm | - |

V-156-1C25

Operating Characteristics V-20-1-C25 V-16-1-C25

| | | |
|----------|----------------|----------------|
| OP. max. | 21g | 14g |
| RF. max. | 21g | 14g |
| PT. max. | 4.0mm | 4.0mm |
| OT. max. | 2.0mm | 1.6mm |
| MD. max. | 0.8mm (Stroke) | 0.8mm (Stroke) |
| CP. | 20.7 ± 1.2mm | - |

CHNANMA® NM-3 Compact Prewired Limit Switch



Ratings

| Rated Voltage (V) | Non-inductive load(A) | | Inductive load(A) | |
|-------------------|-----------------------|-----------|-------------------|------------|
| | Resistive load | Lamp Load | Inductive Load | Motor Load |
| 125VAC | NO | NO | NC | NO |
| | NO | NO | NC | NO |
| 250VAC | NO | NO | NC | NO |
| | NO | NO | NC | NO |
| 14VDC | NO | NO | NC | NO |
| | NO | NO | NC | NO |
| 30VDC | NO | NO | NC | NO |
| | NO | NO | NC | NO |
| 125VDC | 0.4 | 0.05 | 0.05 | 0.4 |
| | 0.4 | 0.05 | 0.05 | 0.4 |
| 250VDC | 0.2 | 0.03 | 0.03 | 0.2 |
| | 0.2 | 0.03 | 0.03 | 0.2 |
| Surge current | NC | | 20A under | |
| | NO | | 10A under | |

Characteristics

| Rating | 3A, 100V AC, 250VAC |
|-----------------------|--|
| Operating speed | 10mm-1ms |
| Operating frequency | Mechanical: 20 operations/min Electrical: 30 operations/min |
| Contact resistance | 10mΩ max (initial) |
| Insulation resistance | 100MΩ min (at 500VDC) |
| Dielectric strength | 1000VAC, 50/60Hz for 1 minute between terminals of the same polarity 1500VAC, 50/60Hz for 1 minute between each terminal and ground |
| Vibration frequency | 10 to 55Hz, 1.5mm double amplitude |
| Shock | Mechanical: Approx. 1000m/s² (Equivalent 100G) Electrical: Approx. 500m/s² (Equivalent 50G) |
| | Ambient temperature |
| Humidity | < 95% RH |
| Life | Mechanically: 10,000,000 operations/min Electrically: 250,000 operations/min |
| Weight | Approx. 30g (cable length 3m) (approx. 5.4g/cm) |
| Degree of protection | IP67 |

Operating Characteristics

| Model | NM-3101 | NM-3102 | NM-3103 | 3104/3107/3108 | NM-3111 | NM-3112 | NM-3113 | NM-3166-3169 |
|----------|------------|------------|------------|----------------|-------------------|-------------------|-------------------|--------------|
| OP. MAX. | 11.77N | 11.77N | 11.77N | 5.69N | 17.65N | 17.65N | 17.65N | 1.47N |
| RF. MIN. | 4.41N | 4.41N | 4.41N | 1.47N | 4.41N | 4.41N | 4.41N | - |
| PT. MAX. | 1.8mm | 1.8mm | 1.8mm | 25" | 1.8mm | 1.8mm | 1.8mm | 15" |
| OT. MIN. | 3mm | 3mm | 3mm | 40" | 3mm | 3mm | 3mm | - |
| MD. MAX. | 0.2mm | 0.2mm | 0.2mm | 3" | 0.2mm | 0.2mm | 0.2mm | - |
| CP. | 15.7 ± 1mm | 28.5 ± 1mm | 28.5 ± 1mm | - | 24.9 ± 1mm (32mm) | 34.3 ± 1mm (32mm) | 34.3 ± 1mm (32mm) | - |

Note: 3104 is the action characteristic of the swing out for length 30mm.

CHNANMA® NM-3 Compact Prewired Limit Switch

NM-3B

NM-3101 DAC-1502

NM-3103 DAC-1502

NM-3103 DAC-1503

NM-3110 DAC-1516

NM-3111 DAC-1531

NM-3112 DAC-1532

NM-3113 DAC-1533

NM-3166 DAC-1530

NM-3169 DAC-1530

CHNANMA® NT Toggle Switch



Features

- The current has 10A and 15A
- Movement easy has sliding pins auto-return type both single-throw and double-throw (can return)
- The terminal block has screw terminal and solder terminal (the terminal also can be used)
- Rainproof cap, water-proof and oil-proof (it is suitable for all series products)
- Mounting hole: $\phi 12mm$

Ratings

| Load | Type | AC Rating | DC Rating |
|----------------|------|-------------------------|-------------------------|
| Resistive Load | TO | 10A/250V/15A/125V | 0.4A/30V/0.5A/125V |
| | TS | 15A/250V/20A/125V | 0.5A/30V/0.5A/125V |
| Inductive Load | TO | 10A/250V/15A/125V | 0.2A/250V/0.4A/125V |
| | TS | 15A/250V/20A/125V | 0.3A/250V/0.5A/125V/15A |
| Lamp Load | TO | 300W/100V/500V/200V | 30V |
| | TS | 400W/120V/800W/250V | 7A/30V |
| Motor Load | TO | 200W/100V/200V/200V | - |
| | TS | 400W/120V (three phase) | - |
| Load | TO | 550W/250V (three phase) | - |
| | TS | 750W/250V (three phase) | - |

Characteristics

| | |
|-----------------------|--|
| Contact resistance | max (m Ω) |
| Insulation resistance | under 50VDC |
| Dielectric strength | 2000VAC/50Hz for 1min |
| Vibration | Double amplitude |
| Ambient temperature | -10°C~+55°C (with no icing) |
| Humidity | 85% RH max |
| Life | Mechanical operation: 10 ⁶ times Electrical operation: 10 ⁵ times |

Rainproof cap(Tow)

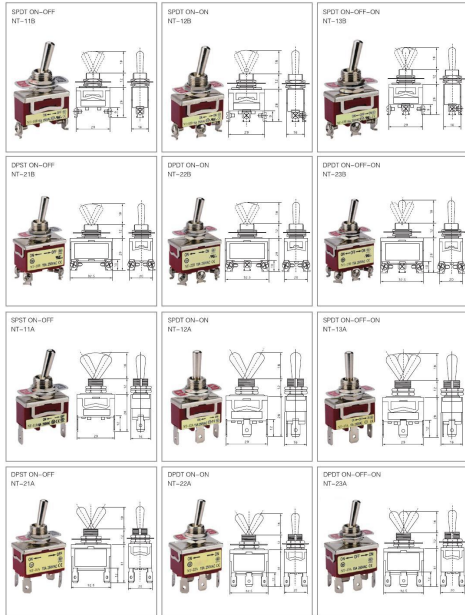


Model&Meaning



| Items Code | Description |
|------------|--|
| TO | 10A/250VAC |
| TSR | 10A/250VAC spring return |
| TS | 15A/250VAC |
| TSR | 15A/250VAC spring return |
| 11 | Single pole single throw ON-OFF |
| 12 | Single pole double throw ON-OFF |
| 13 | Single pole double throw (normal OFF angle return) ON-OFF-ON |
| 131 | Single pole double throw (normal OFF angle return) ON-OFF-OFF-ON |
| 21 | Double pole single throw ON-OFF |
| 22 | Double pole double throw ON-OFF |
| 23 | Double pole double throw (normal OFF angle return) ON-OFF-ON |
| 231 | Double pole double throw (normal OFF angle return) ON-OFF-OFF-ON |
| Terminal | A Tab terminal B Screw terminal C Solder terminal |

CHNANMA® NT Toggle Switch



CHNANMA® Foot Switch



Features

- Kind of shell's material for choice, such as engineering plastic, steel panel, aluminum alloy, etc.
- Shell can use the slip-resisting for resist the surface, bears the impact, the wearability, thermally-stable.
- Cable lock is fixed in made for the cable coming out and it is water-proof, grease-proof.
- Switch bottom is equipped with the rubber pad, for waterproof.
- Widely used for common industrial automation equipments: transport, pressing, medical treatment, test and etc.

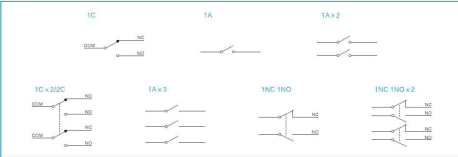
Model&Meaning



Basic Parameters

| | |
|-----------------------|----------------------------|
| Contact Resistance | 25m Ω initial value |
| Insulation Resistance | 100M Ω Above DC500V |
| Withstand Voltage | 2000VAC |
| Mechanical Life | 1,000,000 Above |
| Electrical Life | 1,000,000 Above |
| Operation Temperature | -25~+70°C |
| Operation Humidity | 45%~ |

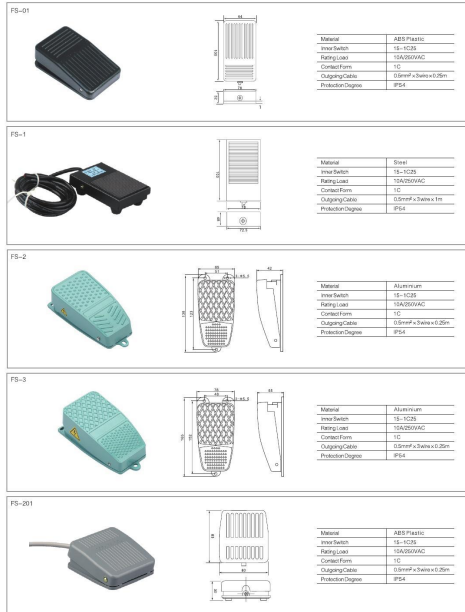
Contact Forms



Application Attentions

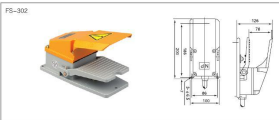
- According to the difference of load and current value, rated load should be taken note. Current value of this series is 10A and 15A.
- When transporting and moving, job done note of the short circuit or open circuit may happen internal wiring.
- Please take notice of the level of protection when used in water, oil and dust. This series has protective type and unprotective type.
- The immediate cause for broken is stress and attack, please pay attention.
- Warning mark "Danger high voltage" and "Take note" connect pay attention to personal safety and correct operation.

CHNANMA® Foot Switch



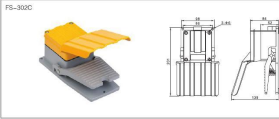
CHNANMA® Foot Switch

FS-302



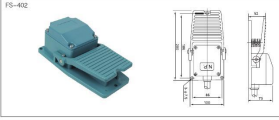
| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

FS-300C



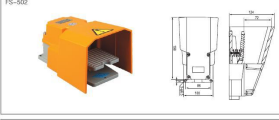
| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

FS-402



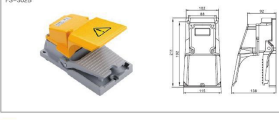
| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

FS-502



| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

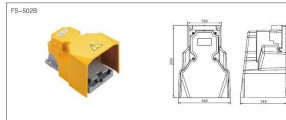
FS-309



| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

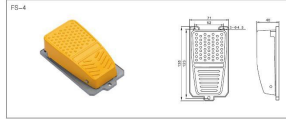
CHNANMA® Foot Switch

FS-509



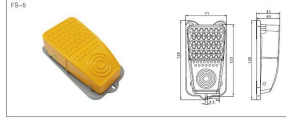
| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

FS-4



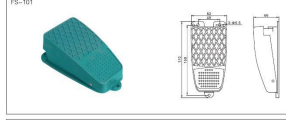
| | |
|-------------------|--------------------|
| Material | Aluminum |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-5



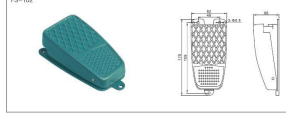
| | |
|-------------------|--------------------|
| Material | Aluminum |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-101



| | |
|-------------------|--------------------|
| Material | ABS Plastic |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

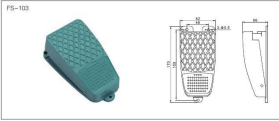
FS-102



| | |
|-------------------|--------------------|
| Material | ABS Plastic |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

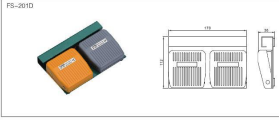
CHNANMA® Foot Switch

FS-103



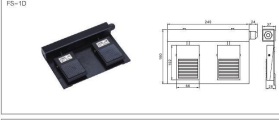
| | |
|-------------------|--------------------|
| Material | ABS Plastic |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-201D



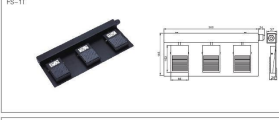
| | |
|-------------------|---------------------|
| Material | ABS Plastic + Steel |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C x 2 |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-10



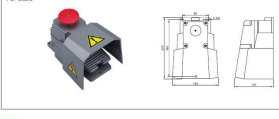
| | |
|-------------------|--------------------|
| Material | Steel |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1A x 2 |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-11



| | |
|-------------------|--------------------|
| Material | Steel |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1A x 2 |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

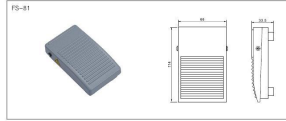
FS-505



| | |
|-------------------|------------|
| Material | Aluminum |
| Inner Switch | 1EG202-B |
| Rating Load | 16A/250VAC |
| Contact Form | 1C x 1C |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

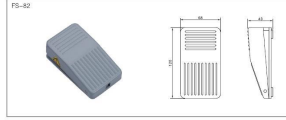
CHNANMA® Foot Switch

FS-81



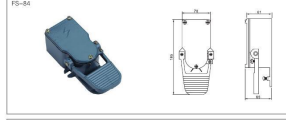
| | |
|-------------------|--------------------|
| Material | Aluminum |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-82



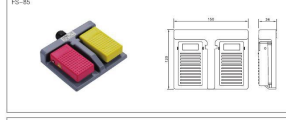
| | |
|-------------------|--------------------|
| Material | Aluminum |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1C |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-84



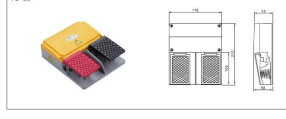
| | |
|-------------------|----------------|
| Material | Aluminum |
| Inner Switch | 1S x 1C10 type |
| Rating Load | 16A/250VAC |
| Contact Form | 1NC-1NO |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

FS-85



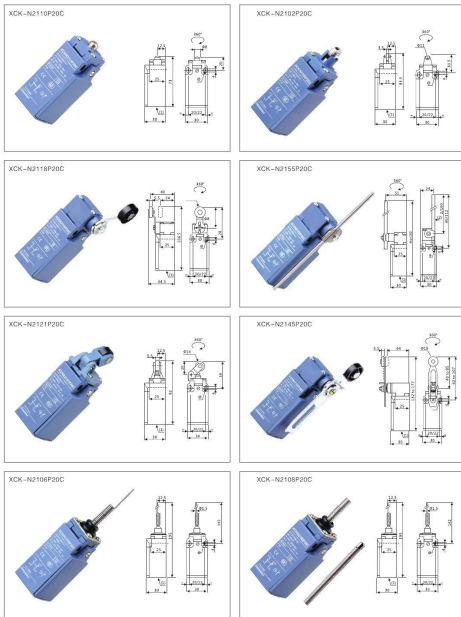
| | |
|-------------------|--------------------|
| Material | Plastic |
| Inner Switch | 1S-1C25 |
| Rating Load | 16A/250VAC |
| Contact Form | 1A x 2 |
| Outgoing Cable | 0.5m*4-Pairs*0.25m |
| Protection Degree | IP54 |

FS-86



| | |
|-------------------|----------------|
| Material | Aluminum |
| Inner Switch | 1S x 1C10 type |
| Rating Load | 16A/250VAC |
| Contact Form | 1NC-1NO x 2 |
| Outgoing Cable | --- |
| Protection Degree | IP65 |

CHNANMA® XCK-N Limit Switch



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CHNANMA® XCK-P Limit Switch



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CHNANMA®

Timer
Counter
Time relay
Solid state relay
Miniature universal relay

P.12 www.chnanma.com

CHNANMA® Relay Series

| | |
|--|--|
| <p>J514S</p>  | <p>Mode: J514S Time Relay Working Power: DC24V AC24V 200V 380V Time Delay Range: 0.2s-30s 0.5s-30s 1s-30s 5s-30s 10s-30s 30s-30s Repetitive Error: less than or equal to 1% Working Mode: On-delay Timing Mode: Counting, LED display Contact Form: 2C (normally open/normally closed function) Contact Capacity: 3A AC220V (Resistive) Dimension: 104*52*114mm Mounting Dimension: 77*45mm Mounting Mode: Panel mounting</p> |
| <p>DHCL</p>  | <p>Mode: DHCL Time Counting Relay/Time Relay/Timer/Relay Working Power: Personal Power Supply (for auxiliary power) Counting Range: 99999.9h, 99999.9min, 9999.99h, 9999.99min, 999999.99m Display Mode: 6.814 LED display, addition counting No-power Memory: Eyes Dimension: 214*81*54mm Mounting Dimension: 22*45mm Mounting Mode: Panel mounting</p> |
| <p>AH2-Y</p>  | <p>Mode: AH2-Y Electrical Time Relay/Time Relay/Timer/Relay Working Power: DC24V AC24V 220V 380V Time Delay Range: Y1: 1s-10s/10s-10m Y2: 3s/5s/10s/30m Y3: 6s/10s/15s/30s Y4: 1s-10s/15s/10s Y5: 3s/5s/10s/30s Repetitive Error: Less than or equal to 1% Working Mode: On-delay Contact Form: A: 2C time delay; B: 1C time delay and 1C pick-up contact Contact Capacity: 3A AC220V (Resistive) Dimension: 67*58*93mm Mounting Dimension: 61*53mm 75.5-214.5 (diam) 80mm Mounting Mode: Panel mounting</p> |
| <p>ATDVY</p>  | <p>Mode: ATDVY Working Power: AC24V 220V 380V 0.5V-200V 200V Time Delay Range: 0.5s-30s 1s-30s 5s-30s Repetitive Error: less than or equal to 1% Working Mode: Cycling delay time Contact Form: 2C time delay contact Contact Capacity: 3A AC220V (Resistive) Dimension: 67*58*93mm Mounting Dimension: 67*53mm 75.5-214.5 (diam) 80mm Mounting Mode: Panel mounting</p> |

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CHNANMA® Relay Series

| | | | |
|-------|---|--------------------|--|
| AH2-V |  | Mode | AH2-V Electronic Time Relay/Time Relay/Timers/Relay |
| | | Working Power | DC24V AC24V 220V/380V |
| | | Time delay Range | YA:1s/10s/1min YB:3s/30s/30min YC:6s/60s/10min YD:1s/10s/1min YE:3m/30m/23h |
| | | Repetitive Error | Less than or equal to 1% |
| | | Working Mode | On-delay |
| | | Contact Form | A: 2C time delay, B: 1C time delay and 1C pick-up contact |
| | | Contact Capacity | 3A AC220V(Resistance) |
| | | Dimension | 67*64*36mm |
| | | Mounting Dimension | 61*53mm 75.5-71*4.5(diameter)mm |
| | | Mounting Mode | Panel mounting |
| ST3PA |  | Mode | ST3PA, C, G Electronic Time Relay/Time Relay/Timers/Relay |
| | | Working Power | DC24V AC24V 220V/380V |
| | | Time Delay Range | 0.2s-24h |
| | | Repetitive Error | less than or equal to 1% |
| | | Working Mode | ST3PA: on-delay, ST3PC: on-delay with pick-up contact, ST3PD: release-time delay |
| | | Contact Form | ST3PA, ST3PD: 2C time delay, ST3PC: 1C time delay with 1C pick-up contact |
| | | Contact Capacity | 3A AC220V(Resistance) |
| | | Dimension | 55*41*34mm |
| | | Mounting Mode | Panel Mounting, mounting outer eye and 35mm rail guide available(mounting as with different sockets and accessories) |
| | | Mode | 2S1E |
| J211S |  | Working Power | DC24V AC24V 220V/380V |
| | | Time Delay Range | 9s, 99s, 999s, 99, 999s, 999s, 9999s, 99, 999s, 9999s, 9999s |
| | | Repetitive Error | less than or equal to 1% |
| | | Working Mode | On-delay |
| | | Contact Form | 1C delay switching contact |
| | | Contact Capacity | 3A AC220V(Resistance) |
| | | Dimension | 55*41*34mm |
| | | Mounting Mode | Panel Mounting |
| DH4EJ |  | Mode | DH4EJ Proset the number of counters |
| | | Working Power | DC 12-220V AC 12-380V |
| | | Data signal | 4 digit 8-16 bit (LED) |
| | | Counting rate | 30 counts per second(cps) |
| | | Contact Capacity | 3A AC220V(Resistance) |
| | | Reset method | Panel reset, External reset |
| | | Incoming signal | Electromechanical, photoelectric, proximity switch and different kinds of sensors |
| | | Time Range | 1-9999 (linear/1*10^100) |
| | | Work mode | Without memory |
| | | Mounting Mode | Panel Mounting |


CHNANMA® Relay Series

| | | | |
|--------------------------------|---|--|---|
| Part No | MY2 | | MY3 |
| Picture |  | |  |
| | 27*21*35 | | 27*21*35 |
| Dimension | Form | 2A, 2B, 2C | 4A, 4B, 4C |
| | Rated load | 5A/240VAC 28VDC | 3A/240VAC 28VDC |
| Contact Feature | Contact resistance | less than or equal to 100mΩ | |
| | Material | silver alloy | silver alloy |
| | Electrical life | equal to or greater than 1*10 ⁵ | equal to or greater than 1*10 ⁵ |
| | Mechanical life | equal to or greater than 1*10 ⁷ | equal to or greater than 1*10 ⁷ |
| operate voltage(23 centigrade) | DC | less than or equal to 75% rated voltage | DC less than or equal to 75% rated voltage |
| | AC | less than or equal to 80% rated voltage | AC less than or equal to 80% rated voltage |
| release voltage(23centigrade) | DC | equal to or greater than 10% rated voltage | DC equal to or greater than 10% rated voltage |
| | AC | equal to or greater than 30% rated voltage | AC equal to or greater than 30% rated voltage |
| Maximum voltage(23 centigrade) | DC | 110% rated voltage | 110% rated voltage |
| | AC | 6-220V | 3-220V |
| Normal coil voltage | DC | 6-380V | 3-380V |
| | AC | 0.9W | 0.9W |
| Normal coil power | DC | 1.2VA | 1.2VA |
| | AC | less than or equal to 20ms | less than or equal to 15ms |
| Pick-up time | less than or equal to 20ms | | less than or equal to 15ms |
| | less than or equal to 20ms | | less than or equal to 15ms |
| Release time | Between Same-side contacts | 1000VAC/1min(leakage current 1mA) | 1000VAC/1min(leakage current 1mA) |
| | Between Opposite-pole contacts | 1000VAC/1min(leakage current 1mA) | 1000VAC/1min(leakage current 1mA) |
| Dielectrical strength | Between contacts and coil | 1500VAC/1min(leakage current 1mA) | 1500VAC/1min(leakage current 1mA) |
| | Between contacts and coil | 1500VAC/1min(leakage current 1mA) | 1500VAC/1min(leakage current 1mA) |
| Insulation resistance | equal to or greater than 100mΩ (500VDC) | | equal to or greater than 100mΩ (500VDC) |
| | minus 25 centigrade to 55 centigrade | | minus 25 centigrade to 55 centigrade |
| Ambient temperature | 45% - 75%RH | | --- |
| Ambient humidity | 86-106KPa | | --- |
| Atmospheric pressure | 10-55Hz(double amplitude, 1.0mm) | | --- |
| Shock resistance | 10-55Hz(double amplitude, 1.0mm) | | --- |
| Vibration resistance | PCB SOCKET | | PCB SOCKET |
| Installation | PCB SOCKET | | PCB SOCKET |

CHNANMA® Relay Series

| | | |
|--------------------------------|---|--|
| Part No | MY4 | |
| Picture |  | |
| | 27*21*35 | |
| Dimension | Form | 2A, 2B, 2C |
| | Rated load | 5A/240VAC 28VDC |
| Contact Feature | Contact resistance | less than or equal to 100mΩ |
| | Material | silver alloy |
| | Electrical life | equal to or greater than 1*10 ⁵ |
| | Mechanical life | equal to or greater than 1*10 ⁷ |
| operate voltage(23 centigrade) | DC | less than or equal to 75% rated voltage |
| | AC | less than or equal to 80% rated voltage |
| release voltage(23centigrade) | DC | equal to or greater than 10% rated voltage |
| | AC | equal to or greater than 30% rated voltage |
| Maximum voltage(23 centigrade) | DC | 110% rated voltage |
| | AC | 6-220V |
| Normal coil voltage | DC | 6-380V |
| | AC | 0.9W |
| Normal coil power | DC | 1.2VA |
| | AC | less than or equal to 20ms |
| Pick-up time | less than or equal to 20ms | |
| | less than or equal to 20ms | |
| Release time | Between Same-side contacts | 1000VAC/1min(leakage current 1mA) |
| | Between Opposite-pole contacts | 1000VAC/1min(leakage current 1mA) |
| Dielectrical strength | Between contacts and coil | 1500VAC/1min(leakage current 1mA) |
| | Between contacts and coil | 1500VAC/1min(leakage current 1mA) |
| Insulation resistance | equal to or greater than 100mΩ (500VDC) | |
| | minus 25 centigrade to 55 centigrade | |
| Ambient temperature | 45% - 75%RH | |
| Ambient humidity | 86-106KPa | |
| Atmospheric pressure | 10-55Hz(double amplitude, 1.0mm) | |
| Shock resistance | 10-55Hz(double amplitude, 1.0mm) | |
| Vibration resistance | PCB SOCKET | |
| Installation | PCB SOCKET | |

CHNANMA® Memorandum

| | | |
|--------------------------------|---|--|
| Part No | MY4 | |
| Picture |  | |
| | 27*21*35 | |
| Dimension | Form | 2A, 2B, 2C |
| | Rated load | 5A/240VAC 28VDC |
| Contact Feature | Contact resistance | less than or equal to 100mΩ |
| | Material | silver alloy |
| | Electrical life | equal to or greater than 1*10 ⁵ |
| | Mechanical life | equal to or greater than 1*10 ⁷ |
| operate voltage(23 centigrade) | DC | less than or equal to 75% rated voltage |
| | AC | less than or equal to 80% rated voltage |
| release voltage(23centigrade) | DC | equal to or greater than 10% rated voltage |
| | AC | equal to or greater than 30% rated voltage |
| Maximum voltage(23 centigrade) | DC | 110% rated voltage |
| | AC | 6-220V |
| Normal coil voltage | DC | 6-380V |
| | AC | 0.9W |
| Normal coil power | DC | 1.2VA |
| | AC | less than or equal to 20ms |
| Pick-up time | less than or equal to 20ms | |
| | less than or equal to 20ms | |
| Release time | Between Same-side contacts | 1000VAC/1min(leakage current 1mA) |
| | Between Opposite-pole contacts | 1000VAC/1min(leakage current 1mA) |
| Dielectrical strength | Between contacts and coil | 1500VAC/1min(leakage current 1mA) |
| | Between contacts and coil | 1500VAC/1min(leakage current 1mA) |
| Insulation resistance | equal to or greater than 100mΩ (500VDC) | |
| | minus 25 centigrade to 55 centigrade | |
| Ambient temperature | 45% - 75%RH | |
| Ambient humidity | 86-106KPa | |
| Atmospheric pressure | 10-55Hz(double amplitude, 1.0mm) | |
| Shock resistance | 10-55Hz(double amplitude, 1.0mm) | |
| Vibration resistance | PCB SOCKET | |
| Installation | PCB SOCKET | |

LAI28(A16, A19) Φ16、Φ19金属按钮及信号灯 Metal Switch Button or Indicating Lamp

| 外形图Outline drawing | 说明Elucidation | 操作类型Type-operation | 型号Type | 颜色Color | 外形尺寸Outline dimensions |
|--------------------|--|--------------------|----------|---------|------------------------|
| | 高亮度按钮信号灯 安装孔尺寸: Φ12mm 开关额定值: 3A/250VAC 开关寿命: 100,000(可定制1NC) 操作类型: 自锁式 面板材料: 金属 防护等级: IP65 | 自锁 | A16-H-10 | | |
| | 高亮度按钮信号灯 安装孔尺寸: Φ12mm 开关额定值: 3A/250VAC 开关寿命: 100,000(可定制1NC) 操作类型: 自锁式 面板材料: 金属 防护等级: IP65 | 自锁 | A16-B-10 | | |
| | 高亮度按钮信号灯 安装孔尺寸: Φ12mm 开关额定值: 3A/250VAC 开关寿命: 100,000(可定制1NC) 操作类型: 自锁式 面板材料: 金属 防护等级: IP65 | 自锁 | A16-F-10 | | |
| | 高亮度按钮信号灯 安装孔尺寸: Φ15mm 开关额定值: 3A/250VAC 开关寿命: 100,000(可定制1NC) 操作类型: 自锁式 面板材料: 金属 防护等级: IP65 | 自锁 | A19-B-10 | | |
| | 高亮度按钮信号灯 安装孔尺寸: Φ15mm 开关额定值: 3A/250VAC 开关寿命: 100,000(可定制1NC) 操作类型: 自锁式 面板材料: 金属 防护等级: IP65 | 自锁 | A19-F-10 | | |
| | 高亮度按钮信号灯 安装孔尺寸: Φ15mm 开关额定值: 3A/250VAC 开关寿命: 100,000(可定制1NC) 操作类型: 自锁式 面板材料: 金属 防护等级: IP65 | 自锁 | A19-H-10 | | |

注: 在订购产品时应注明产品规格、颜色、数量、数量、如属新产品, 请务必注明灯的工作电压及功率。其外壳规格, 可与本公司直接联系。
Note: In order products should be marked with product specifications, color, quantity, if the light products, working voltage must also indicate lamp/imp in behind the model. Other non Xiang specifications, can contact directly with the company.

发光体的效果图 Luminous Effect



颜色外壳效果图 Color Shell Effect Chart

