

LIMIT SWITCH CE

| Model | ROLLER PLUNGER | | TOP BALL PLUNGER | | VARIABLE ROLLER LEVER | | VARIABLE ROD | | ROLLER LEVER | | SPRING WIRE | | FORK ROLLER LEVER | |
|-----------------------|---|--|------------------|-------|-----------------------|-------|--------------|-------|--------------|-------|-------------|-------|-------------------|-------|
| | M902 | LM902 | M903 | LM903 | M904 | LM904 | M907 | LM907 | M908 | LM908 | M909 | LM909 | M908R | M908L |
| Appearance | | | | | | | | | | | | | | |
| Operation speed | 0,1 – 1 % | | | | | | | | | | | | | |
| Frequency | Mechanical | 120 /minute | | | | | | | | | | | | |
| | Electrical | 20 /minute | | | | | | | | | | | | |
| Insulation resistance | Min. 100 MΩ (At 500 V d.c.) | | | | | | | | | | | | | |
| Dielectric strength | 1,000 V a.c. 50/60 Hz 1 minute (between charging part), 1,500 V a.c. 50/60 Hz 1 minute (between discharging part) | | | | | | | | | | | | | |
| Contact resistance | Max. 100 MΩ (initial) | | | | | | | | | | | | | |
| Vibration | Malfunction Resistance | 10 – 55 Hz Double amplitude width 1,5 mm | | | | | | | | | | | | |
| Shock | Mechanical Durability | Min. 1,000 % (Min. 100G) | | | | | | | | | | | | |
| | Malfunction Resistance | Min. 300 % (Min. 30G) | | | | | | | | | | | | |
| Life | Mechanical | Min. 1 Millions operations | | | | | | | | | | | | |
| | Electrical | Min. 0,3 Million operation | | | | | | | | | | | | |

RATINGS

| RATED VOLTAGE (V) | NON-INDUCTIVE LOAD(A) | | | | INDUCTIVE LOAD(A) | | | |
|-------------------|-----------------------|-----|------|-----|-------------------|-----|------------|----|
| | Resistive LOAD | | RAMP | | INDUCTIVE LOAD | | MOTOR LOAD | |
| | NC | NO | NC | NO | NC | NO | NC | NO |
| AC | 125 | 15 | 3 | 1,5 | 10 | 3 | 1,5 | |
| | 250 | 10 | 2 | 1 | 6 | 2 | 1 | |
| | 480 | 3 | 1,5 | 0,8 | 2 | 1,5 | 0,75 | |
| DC | 8 | 15 | 6 | 3 | 10 | – | – | |
| | 14 | 15 | 6 | 3 | 10 | – | – | |
| | 30 | 6 | 4 | 3 | 5 | – | – | |
| | 125 | 0,4 | 0,2 | 0,2 | 0,05 | – | – | |
| | 250 | 0,2 | 0,1 | 0,1 | 0,03 | – | – | |

MINI LIMIT SWITCH

| Model | Roller Plunger type | CrossRoller Plunger type | Top Plunger type | Roller Adjustable Lever | Rubber Roller Adjustable Lever | Adjustable Rod Lever | Roller Lever | Coil spring type |
|----------------------------------|---|--|------------------|-------------------------|--------------------------------|----------------------|--------------|------------------|
| | HY-L802 | HY-L802C | HY-L803 | HY-L804 | HY-L804RE | HY-L807 | HY-L808 | HY-L809 |
| Appearance | | | | | | | | |
| Frequency | Mechanical | 120 /minute | | | | | | |
| | Electrical | 30 /minute | | | | | | |
| Insulation resistance | Min. 100 MΩ (At 500 V d.c.) | | | | | | | |
| Dielectric strength | Between non-continuous terminal : 1500 V a.c. 50/60 Hz 1minute Between terminal & non-current carrying metal part : 2,000 V a.c. 50/60 Hz 1 minute | | | | | | | |
| Contact resistance | Max. 25 MΩ (initial), Max. 100 MΩ (after testing) | | | | | | | |
| Vibration | Malfunction Resistance | Min. 10 – 55 Hz double amplitude width 1,5 mm | | | | | | |
| Shock | Mechanical Durability | Min. 300% (30G above) | | | | | | |
| | Malfunction Resistance | Min. 100% (10G above) | | | | | | |
| Life | Mechanical | Min. 1 million operation (Switching frequency 120 /minute) | | | | | | |
| | Electrical | Min. 0,1 millions operations (Switching frequency 20 /minute, at rated load) | | | | | | |
| Ambient temperature and humidity | -10 ~ 70 °C 95 % RH below (20 °C) | | | | | | | |

RATINGS

| RATED VOLTAGE | LOAD | Resistive LOAD (cosφ=1) | INDUCTIVE (cosφ=0,4) |
|---------------|------|-------------------------|----------------------|
| 125 V a.c. | | 5 A | 3 A |
| 250 V a.c. | | 5 A | 2 A |
| 125 V d.c. | | 0,4 A | 0,1 A |

Limit Switch

N TYPE LIMIT SWITCH

| Model | | Roller Plunger | Push Plunger | Roller Arm | Rubber Roller Lever | Roller Adjustable Lever | Adjustable Rod Lever | Roller Lever |
|-----------------------|------------------------|--|--------------|------------|---------------------|-------------------------|----------------------|--------------|
| | | LS-802N | LS-803N | LS-803RN | LS-804RE | LS-804N | LS-807N | LS-808N |
| Appearance | | | | | | | | |
| Frequency | Mechanical | 120 /minute | | | | | | |
| | Electrical | 30 /minute | | | | | | |
| Insulation resistance | | Min. 100 MΩ (AT 500 V d.c.) | | | | | | |
| Contact resistance | | Max. 25 MΩ (initial) | | | | | | |
| Dielectric resistance | | 1,000 V a.c. 50/60 Hz for 1 minute, 2,000 V a.c. 50/60 Hz for 1 minute | | | | | | |
| Vibration | Malfunction Resistance | 10 – 55 Hz double amplitude width 1.5 mm | | | | | | |
| Shock | Mechanical Durability | Min. 1,000 % (Min. 100G) | | | | | | |
| | Malfunction Resistance | Min. 300 % (Min. 30G) | | | | | | |
| Life | Mechanical | Min. 1 million operation | | | | | | |
| | Electrical | Min. 0.1 million operation | | | | | | |
| Ambient temperature | | -10 ~ 70 °C | | | | | | |
| Ambient humidity | | Max. 95 % RH (20 °C) | | | | | | |

RATINGS

| RATED VOLTAGE (V) | | NON-INDUCTIVE Load(A) | | INDUCTIVE LOAD(A) | | | | | |
|-------------------|-----|-----------------------|------|-------------------|----|----------------|----|------------|--|
| | | Resistive LOAD | | RAMP | | INDUCTIVE LOAD | | MOTOR LOAD | |
| | | NO | NC | NO | NC | NO | NC | | |
| AC | 125 | 6 | 2 | 6 | | 3 | | | |
| | 250 | 6 | 1.5 | 6 | | 1.5 | | | |
| DC | 8 | 6 | 4 | 6 | | 4 | | | |
| | 14 | 6 | 4 | 6 | | 4 | | | |
| | 30 | 4 | 2.5 | 4 | | 2.5 | | | |
| | 125 | 0.4 | 0.1 | 0.4 | | 0.1 | | | |
| | 250 | 0.2 | 0.05 | 0.2 | | 0.05 | | | |

ZCN TYPE LIMIT SWITCH

| Model | | Plunger type | Hinge roller short lever type | Hinge roller long lever type | Hinge short lever type | Hinge lever type | Hinge long lever type | Vertical roller plunger type | Horizontal roller plunger type | Resin road spring type |
|----------------------------------|------------------------|---|-------------------------------|------------------------------|------------------------|------------------|-----------------------|------------------------------|--------------------------------|------------------------|
| | | P5010 | R504A | R504C | L507A | L507C | L507D | PR508V | PR508H | L509 |
| Appearance | | | | | | | | | | |
| Operation speed | | 0.1 mm – 0.5 % | | | | | | | | |
| Frequency | Mechanical | 120 /minute | | | | | | | | |
| | Electrical | 20 /minute | | | | | | | | |
| Insulation resistance | | Min. 100 MΩ (AT 500 V d.c.) | | | | | | | | |
| Contact resistance | | Max. 25 MΩ (initial), Max. 100 MΩ | | | | | | | | |
| Dielectric strength | | Between charging part : 1,000 V a.c. 50/60 Hz for 1 minute, Between discharging part : 1,500 V a.c. 50/60 Hz for 1 minute | | | | | | | | |
| Vibration | Malfunction Resistance | 10 – 55 Hz double amplitude width 1.5 mm | | | | | | | | |
| Shock | Mechanical Durability | Min. 1,000 % (Min. 100G) | | | | | | | | |
| | Malfunction Resistance | Min. 300 % (Min. 30G) | | | | | | | | |
| Life | Mechanical | Min. 1 million operation | | | | | | | | |
| | Electrical | Min. 0.3 million operation | | | | | | | | |
| Ambient temperature and humidity | | -10 ~ 80 °C Max. 25 ~ 95 % RH | | | | | | | | |

RATINGS

| RATED VOLTAGE (V) | | NON-INDUCTIVE LOAD(A) | | INDUCTIVE LOAD(A) | | | |
|-------------------|-----|-----------------------|-----|-------------------|-----|------------|------|
| | | Resistive LOAD | | INDUCTIVE LOAD | | MOTOR LOAD | |
| | | N.C | N.O | N.C | N.O | N.C | N.O |
| AC | 125 | 15 | | 10 | | 3 | 1.5 |
| | 250 | 10 | | 6 | | 2 | 1 |
| | 600 | 3 | | 2 | | 1.5 | 0.75 |
| DC | 8 | 15 | | 10 | | - | - |
| | 14 | 15 | | 10 | | - | - |
| | 30 | 6 | | 5 | | - | - |
| | 125 | 0.4 | | 0.05 | | - | - |
| | 250 | 0.2 | | 0.03 | | - | - |