

Standard type contact gap is 1mm. Please consult us if you need more than 1mm contact gap.

RoHS compliant

FEATURES

- High precision as a result of designing ideal spring by using computer analysis
O.P. 14.7 ± 0.4 mm
- Reliable design with shock resistance min. 980 m/s²
- High inrush resistance 160A
- Wide variety of contact ratings and terminal types
- UL/C-UL, ENEC/VDE approved

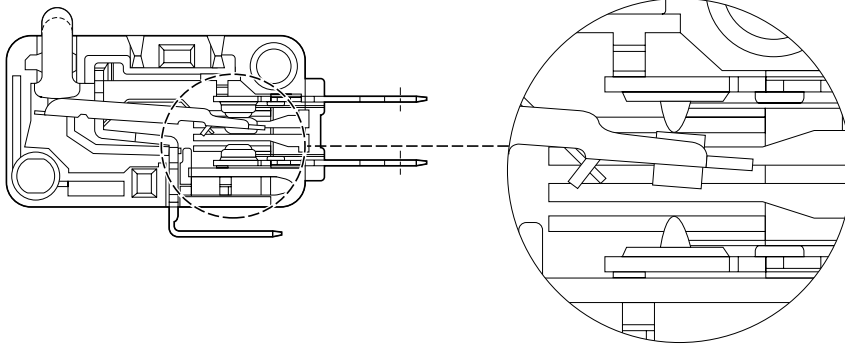
TYPICAL APPLICATION

- Home appliances
- Vending machines
- Amusement and communication equipment
- Copies
- General industrial machines

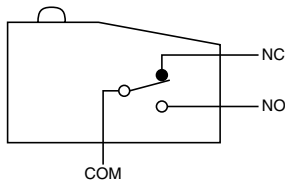
CONSTRUCTION

1. Silver alloy contact

2. Gold clad contact

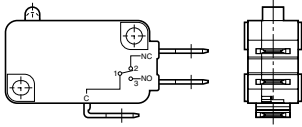


CONTACT ARRANGEMENT

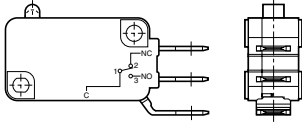


TERMINALS

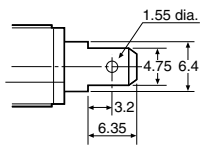
.187 Quick-connect terminal
.187 Quick-connect/solder terminal
 Bottom COM terminal



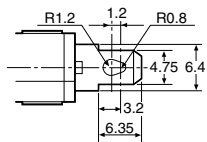
Side COM terminal



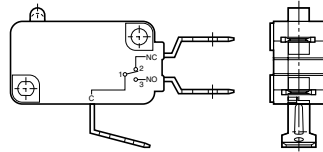
Dimensions
 .187 Quick-connect terminal



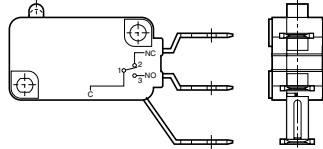
Dimensions
 .187 Quick-connect/solder terminal



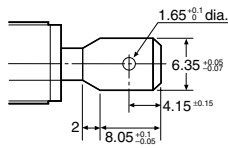
.250 Quick-connect terminal
 Bottom COM terminal



Side COM terminal



Dimensions



OPERATION FORCE CHART

| 7th digit of Part Number/Actuator | Operation Force, Max. by actuator | | | | |
|-----------------------------------|-----------------------------------|-------|-------|-------|-------|
| | 3 | 4 | 5 | 6 | 7 |
| Pin plunger | 0.49N | 0.98N | 1.96N | 2.94N | 3.92N |
| Short hinge lever | 0.59N | 1.08N | 2.16N | 3.14N | 4.12N |
| Hinge lever | 0.29N | 0.59N | 1.18N | 1.77N | 2.35N |
| Long hinge lever | 0.15N | 0.29N | 0.59N | 0.88N | 1.18N |
| Simulated roller lever | 0.29N | 0.59N | 1.18N | 1.77N | 2.35N |
| Short roller lever | 0.59N | 1.08N | 2.16N | 3.14N | 4.12N |
| Roller lever | 0.29N | 0.59N | 1.18N | 1.77N | 2.35N |

AM5

ORDERING INFORMATION

0.1A type

Ex. AM5 0 0 1 0 C 5 3

| Type of switch | Contact rating | Terminals | Actuators | Terminals | Operating force by pin plunger (max.) | Agency standard |
|----------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------|-------------------------------------|
| AM5: QV switch | 00: 0.1 A (Gold clad) | 1: Bottom COM, SPDT 2: Bottom COM, SPST-NC 3: Bottom COM, SPST-NO 4: Side COM, SPDT 5: Side COM, SPST-NC 6: Side COM, SPST-NO | 0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Short roller lever 6: Roller lever | A: .187 Quick-connect/solder terminal C: .187 Quick-connect terminal | 3: 0.49 N 4: 0.98 N 5: 1.96 N | 3: UL/C-UL rated, ENEC/VDE approved |

Remarks: 1. Not every combination is available. Please refer to the table, "PRODUCT TYPES".
2. Please refer to the Standard Chart regarding Agency Standard

6A type

Ex. AM5 0 6 1 0 C 5 3

| Type of switch | Contact rating | Terminals | Actuators | Terminals | Operating force by pin plunger (max.) | Agency standard |
|----------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------|-------------------------------------|
| AM5: QV switch | 06: 6 A (Silver alloy) | 1: Bottom COM, SPDT 2: Bottom COM, SPST-NC 3: Bottom COM, SPST-NO 4: Side COM, SPDT 5: Side COM, SPST-NC 6: Side COM, SPST-NO | 0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Short roller lever 6: Roller lever | A: .187 Quick-connect/solder terminal C: .187 Quick-connect terminal | 3: 0.49 N | 3: UL/C-UL rated, ENEC/VDE approved |

Remarks: 1. Not every combination is available. Please refer to the table, "PRODUCT TYPES".
2. Please refer to the Standard Chart regarding Agency Standard

11A type

Ex. AM5 1 1 1 0 C 4 3 N

| Type of switch | Contact rating | Terminals | Actuators | Terminals | Operating force by pin plunger (max.) | Agency standard | Contact |
|----------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------|-----------------|
| AM5: QV switch | 11: 11 A (Silver alloy) | 1: Bottom COM, SPDT 2: Bottom COM, SPST-NC 3: Bottom COM, SPST-NO 4: Side COM, SPDT 5: Side COM, SPST-NC 6: Side COM, SPST-NO | 0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Short roller lever 6: Roller lever | A: .187 Quick-connect/solder terminal C: .187 Quick-connect terminal D: .250 Quick-connect terminal | 4: 0.98 N | 3: UL/C-UL rated, ENEC/VDE approved | N: Cadmium free |

Remarks: 1. Not every combination is available. Please refer to the table, "PRODUCT TYPES".
2. Please refer to the Standard Chart regarding Agency Standard

16A type

Ex. AM5 1 6 1 0 C 5 3 N

| Type of switch | Contact rating | Terminals | Actuators | Terminals | Operating force by pin plunger (max.) | Agency standard | Contact |
|----------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------|-----------------|
| AM5: QV switch | 16: 16 A (Silver alloy) | 1: Bottom COM, SPDT 2: Bottom COM, SPST-NC 3: Bottom COM, SPST-NO 4: Side COM, SPDT 5: Side COM, SPST-NC 6: Side COM, SPST-NO | 0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Short roller lever 6: Roller lever | A: .187 Quick-connect/solder terminal C: .187 Quick-connect terminal D: .250 Quick-connect terminal | 5: 1.96 N 6: 2.94 N 7: 3.92 N | 3: UL/C-UL rated, ENEC/VDE approved | N: Cadmium free |

Remarks: 1. Not every combination is available. Please refer to the table, "PRODUCT TYPES".
2. Please refer to the Standard Chart regarding Agency Standard

PRODUCT TYPES

0.1A type (Gold clad contact)

.187 Quick-connect terminal

1) Bottom COM terminal

| Actuator | Operating force, Max. | Contact arrangement | | |
|------------------------|-----------------------|---------------------|------------|------------|
| | | SPDT | SPST-NC | SPST-NO |
| Pin plunger | 0.49N | AM50010C33 | AM50020C33 | AM50030C33 |
| | 0.98N | AM50010C43 | AM50020C43 | AM50030C43 |
| | 1.96N | AM50010C53 | AM50020C53 | AM50030C53 |
| Short hinge lever | 0.59N | AM50011C33 | AM50021C33 | AM50031C33 |
| | 1.08N | AM50011C43 | AM50021C43 | AM50031C43 |
| | 2.16N | AM50011C53 | AM50021C53 | AM50031C53 |
| Hinge lever | 0.29N | AM50012C33 | AM50022C33 | AM50032C33 |
| | 0.59N | AM50012C43 | AM50022C43 | AM50032C43 |
| | 1.18N | AM50012C53 | AM50022C53 | AM50032C53 |
| Long hinge lever | 0.15N | AM50013C33 | AM50023C33 | AM50033C33 |
| | 0.29N | AM50013C43 | AM50023C43 | AM50033C43 |
| | 0.59N | AM50013C53 | AM50023C53 | AM50033C53 |
| Simulated roller lever | 0.29N | AM50014C33 | AM50024C33 | AM50034C33 |
| | 0.59N | AM50014C43 | AM50024C43 | AM50034C43 |
| | 1.18N | AM50014C53 | AM50024C53 | AM50034C53 |
| Short roller lever | 0.59N | AM50015C33 | AM50025C33 | AM50035C33 |
| | 1.08N | AM50015C43 | AM50025C43 | AM50035C43 |
| | 2.16N | AM50015C53 | AM50025C53 | AM50035C53 |
| Roller lever | 0.29N | AM50016C33 | AM50026C33 | AM50036C33 |
| | 0.59N | AM50016C43 | AM50026C43 | AM50036C43 |
| | 1.18N | AM50016C53 | AM50026C53 | AM50036C53 |

2-1) Side COM terminal

| Actuator | Operating force, Max. | Contact arrangement | | |
|------------------------|-----------------------|---------------------|------------|------------|
| | | SPDT | SPST-NC | SPST-NO |
| Pin plunger | 0.49N | AM50040C33 | AM50050C33 | AM50060C33 |
| | 0.98N | AM50040C43 | AM50050C43 | AM50060C43 |
| | 1.96N | AM50040C53 | AM50050C53 | AM50060C53 |
| Short hinge lever | 0.59N | AM50041C33 | AM50051C33 | AM50061C33 |
| | 1.08N | AM50041C43 | AM50051C43 | AM50061C43 |
| | 2.16N | AM50041C53 | AM50051C53 | AM50061C53 |
| Hinge lever | 0.29N | AM50042C33 | AM50052C33 | AM50062C33 |
| | 0.59N | AM50042C43 | AM50052C43 | AM50062C43 |
| | 1.18N | AM50042C53 | AM50052C53 | AM50062C53 |
| Long hinge lever | 0.15N | AM50043C33 | AM50053C33 | AM50063C33 |
| | 0.29N | AM50043C43 | AM50053C43 | AM50063C43 |
| | 0.59N | AM50043C53 | AM50053C53 | AM50063C53 |
| Simulated roller lever | 0.29N | AM50044C33 | AM50054C33 | AM50064C33 |
| | 0.59N | AM50044C43 | AM50054C43 | AM50064C43 |
| | 1.18N | AM50044C53 | AM50054C53 | AM50064C53 |
| Short roller lever | 0.59N | AM50045C33 | AM50055C33 | AM50065C33 |
| | 1.08N | AM50045C43 | AM50055C43 | AM50065C43 |
| | 2.16N | AM50045C53 | AM50055C53 | AM50065C53 |
| Roller lever | 0.29N | AM50046C33 | AM50056C33 | AM50066C33 |
| | 0.59N | AM50046C43 | AM50056C43 | AM50066C43 |
| | 1.18N | AM50046C53 | AM50056C53 | AM50066C53 |

AM5

6A type (Silver alloy contact)

.187 Quick-connect terminal

1) Bottom COM terminal

| Actuator | Operating force, Max. | Contact arrangement | Contact arrangement | |
|------------------------|-----------------------|---------------------|---------------------|------------|
| | | SPDT | SPST-NC | SPST-NO |
| Pin plunger | 0.49N | AM50610C33 | AM50620C33 | AM50630C33 |
| Short hinge lever | 0.59N | AM50611C33 | AM50621C33 | AM50631C33 |
| Hinge lever | 0.29N | AM50612C33 | AM50622C33 | AM50632C33 |
| Long hinge lever | 0.15N | AM50613C33 | AM50623C33 | AM50633C33 |
| Simulated roller lever | 0.29N | AM50614C33 | AM50624C33 | AM50634C33 |
| Short roller lever | 0.59N | AM50615C33 | AM50625C33 | AM50635C33 |
| Roller lever | 0.29N | AM50616C33 | AM50626C33 | AM50636C33 |

2-1) Side COM terminal

| Actuator | Operating force, Max. | Contact arrangement | Contact arrangement | |
|------------------------|-----------------------|---------------------|---------------------|------------|
| | | SPDT | SPST-NC | SPST-NO |
| Pin plunger | 0.49N | AM50640C33 | AM50650C33 | AM50660C33 |
| Short hinge lever | 0.59N | AM50641C33 | AM50651C33 | AM50661C33 |
| Hinge lever | 0.29N | AM50642C33 | AM50652C33 | AM50662C33 |
| Long hinge lever | 0.15N | AM50643C33 | AM50653C33 | AM50663C33 |
| Simulated roller lever | 0.29N | AM50644C33 | AM50654C33 | AM50664C33 |
| Short roller lever | 0.59N | AM50645C33 | AM50655C33 | AM50665C33 |
| Roller lever | 0.29N | AM50646C33 | AM50656C33 | AM50666C33 |

Remarks: Also .187 Quick-connect/solder terminal is available. When ordering, change the eighth digit of part number C to A.

<ex.> .187 Quick-connect terminal .187 Quick-connect/solder terminal
 AM50610C4 → AM50610A4

11A type (Silver alloy contact)

.187 Quick-connect terminal

1) Bottom COM terminal

| Actuator | Operating force, Max. | Contact arrangement | Contact arrangement | |
|------------------------|-----------------------|---------------------|---------------------|-------------|
| | | SPDT | SPST-NC | SPST-NO |
| Pin plunger | 0.98N | AM51110C43N | AM51120C43N | AM51130C43N |
| Short hinge lever | 1.08N | AM51111C43N | AM51121C43N | AM51131C43N |
| Hinge lever | 0.59N | AM51112C43N | AM51122C43N | AM51132C43N |
| Long hinge lever | 0.29N | AM51113C43N | AM51123C43N | AM51133C43N |
| Simulated roller lever | 0.59N | AM51114C43N | AM51124C43N | AM51134C43N |
| Short roller lever | 1.08N | AM51115C43N | AM51125C43N | AM51135C43N |
| Roller lever | 0.59N | AM51116C43N | AM51126C43N | AM51136C43N |

2-1) Side COM terminal

| Actuator | Operating force, Max. | Contact arrangement | Contact arrangement | |
|------------------------|-----------------------|---------------------|---------------------|-------------|
| | | SPDT | SPST-NC | SPST-NO |
| Pin plunger | 0.98N | AM51140C43N | AM51150C43N | AM51160C43N |
| Short hinge lever | 1.08N | AM51141C43N | AM51151C43N | AM51161C43N |
| Hinge lever | 0.59N | AM51142C43N | AM51152C43N | AM51162C43N |
| Long hinge lever | 0.29N | AM51143C43N | AM51153C43N | AM51163C43N |
| Simulated roller lever | 0.59N | AM51144C43N | AM51154C43N | AM51164C43N |
| Short roller lever | 1.08N | AM51145C43N | AM51155C43N | AM51165C43N |
| Roller lever | 0.59N | AM51146C43N | AM51156C43N | AM51166C43N |

Remarks: 1. Also .187 Quick-connect/solder terminal is available. When ordering, change the eighth digit of part number C to A.

<ex.> .187 Quick-connect terminal .187 Quick-connect/solder terminal
 AM51110C4 → AM51110A4

2. .250 Quick-connect terminal is available. When ordering, change the eighth digit of part number C to D.

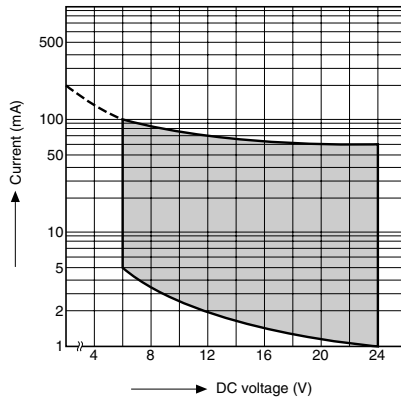
<ex.> .187 Quick-connect terminal .250 Quick-connect terminal
 AM51110C4 → AM51110D4

AM5

DATA

Gold-clad type

Range of low-level current voltage



SPECIFICATIONS

1. Contact rating

| Type | | Voltage | Resistive load (cos=1) | Inductive load (cos nearly equal 0.6 to 0.7) |
|-----------------------------------------|-----------|---------|------------------------|----------------------------------------------|
| Gold clad contact | 0.1A type | 250V AC | 0.1A | 0.1A |
| | | 125V AC | 0.1A | 0.1A |
| | | 30V DC | 0.1A | 0.1A |
| Silver alloy contact | 6A type | 250V AC | 6A | 3A |
| | | 125V AC | 6A | 3A |
| | | 125V DC | 0.5A | 0.5A |
| | 11A type | 250V AC | 11A | 6A |
| | | 125V AC | 11A | 6A |
| | | 125V DC | 0.6A | 0.6A |
| | 16A type | 250V AC | 16A | 10A |
| | | 125V AC | 16A | 10A |
| | | 125V DC | 0.6A | 0.6A |
| Gold clad contact for low level circuit | | 6V DC | 5mA | — |
| | | 12V DC | 2mA | — |
| | | 24V DC | 1mA | — |

Remark: The inductive load for DC should have a time constant of 7 ms or less.

2. Characteristics

| Type | | 16, 11, 6A type (Silver alloy) | 0.1A type (Gold clad) |
|------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expected life (min.) | Mechanical | 10 ⁷ operations (at 60 cpm) | |
| | Electrical | 10 ⁵ Operations (at rated load 20 cpm) | 10 ⁵ operations (at rated load) 2 × 10 ⁶ operations (at low-level circuit rating) |
| Insulation resistance | | 100MΩ (at 500V DC) | |
| Dielectric strength | Between terminals | 1,000Vrms for 1 min. | |
| | Between terminals and other exposed metal parts | 2,000Vrms for 1 min. | |
| | Between terminals and ground | 2,000Vrms for 1 min. | |
| Contact resistance (initial) | | 50mΩ (by voltage drop at 1A 6 to 8V DC) | 50mΩ (by voltage drop at 0.1A 6 to 8V DC) |
| Vibration resistance (by pin plunger) | | 10 to 55Hz at simple amplitude of 0.75mm (Contact opening: max. 1msec.) | |
| Shock resistance (by pin plunger) (contact opening: max. 1msec.) | | O.F. 0.49N max. type Min. 98m/s ² O.F. 0.98N max. type Min. 196m/s ² O.F. 1.96N to 3.92N max. type Min. 294m/s ² | O.F. 0.15N to 0.49N max. type Min. 98m/s ² O.F. 0.98N max. type Min. 196m/s ² O.F. 1.96N max. type Min. 294m/s ² |
| Allowable operating speed | | 0.1 to 1,000mm/sec. (at pin plunger) | |
| Maximum operating cycle rate | | 600cpm | |
| Ambient temperature | | -25 to +105°C (Not freezing below 0°C) | |
| Weight | | 6.3g | |

3. Operating characteristics**Pin plunger**

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|-------|-------|-------|-------|
| Operating force, max. | 0.49N | 0.98N | 1.96N | 2.94N | 3.92N |
| Release force, min. | 0.12N | 0.25N | 0.49N | 0.74N | 0.98N |
| Pretravel, max. mm | 1.4 | | | | |
| Movement differential, max. mm | 0.4 | | | | |
| Overtravel, min. mm | 1.0 | | | | |
| Operating position mm | 14.7±0.4 | | | | |

Short hinge lever

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|-------|-------|-------|-------|
| Operating force, max. | 0.59N | 1.08N | 2.16N | 3.14N | 4.12N |
| Release force, min. | 0.098N | 0.20N | 0.39N | 0.59N | 0.78N |
| Pretravel, max. mm | 1.6 | | | | |
| Movement differential, max. mm | 0.5 | | | | |
| Overtravel, min. mm | 0.9 | | | | |
| Operating position mm | 15.3±0.5 | | | | |

Hinge lever

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|--------|-------|-------|-------|
| Operating force, max. | 0.29N | 0.59N | 1.18N | 1.77N | 2.35N |
| Release force, min. | 0.049N | 0.098N | 0.20N | 0.29N | 0.39N |
| Pretravel, max. mm | 3.2 | | | | |
| Movement differential, max. mm | 1.0 | | | | |
| Overtravel, min. mm | 1.4 | | | | |
| Operating position mm | 15.3±1.0 | | | | |

Long hinge lever

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|--------|--------|-------|-------|
| Operating force, max. | 0.15N | 0.29N | 0.59N | 0.88N | 1.18N |
| Release force, min. | 0.025N | 0.049N | 0.098N | 0.15N | 0.20N |
| Pretravel, max. mm | 7.5 | | | | |
| Movement differential, max. mm | 2.0 | | | | |
| Overtravel, min. mm | 2.2 | | | | |
| Operating position mm | 15.3±2.6 | | | | |

Simulated roller lever

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|--------|-------|-------|-------|
| Operating force, max. | 0.29N | 0.59N | 1.18N | 1.77N | 2.35N |
| Release force, min. | 0.049N | 0.098N | 0.20N | 0.29N | 0.39N |
| Pretravel, max. mm | 3.2 | | | | |
| Movement differential, max. mm | 1.0 | | | | |
| Overtravel, min. mm | 1.4 | | | | |
| Operating position mm | 18.5±1.0 | | | | |

Short roller lever

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|-------|-------|-------|-------|
| Operating force, max. | 0.59N | 1.08N | 2.16N | 3.14N | 4.12N |
| Release force, min. | 0.098N | 0.20N | 0.39N | 0.59N | 0.78N |
| Pretravel, max. mm | 1.6 | | | | |
| Movement differential, max. mm | 0.5 | | | | |
| Overtravel, min. mm | 0.9 | | | | |
| Operating position mm | 20.7±0.5 | | | | |

Roller lever

| 7th digit of part No. | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|----------|--------|-------|-------|-------|
| Operating force, max. | 0.29N | 0.59N | 1.18N | 1.77N | 2.35N |
| Release force, min. | 0.049N | 0.098N | 0.20N | 0.29N | 0.39N |
| Pretravel, max. mm | 3.2 | | | | |
| Movement differential, max. mm | 1.0 | | | | |
| Overtravel, min. mm | 1.4 | | | | |
| Operating position mm | 20.7±1.0 | | | | |

AM5

DIMENSIONS

The CAD data of the products with a **CAD Data** mark can be downloaded from: <http://industrial.panasonic.com/ac/e>

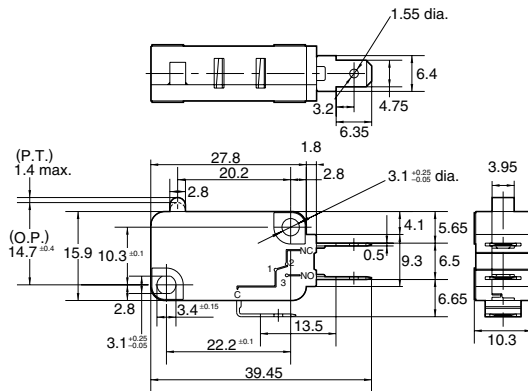
1. Pin plunger Bottom COM terminal

mm General tolerance: ± 0.25

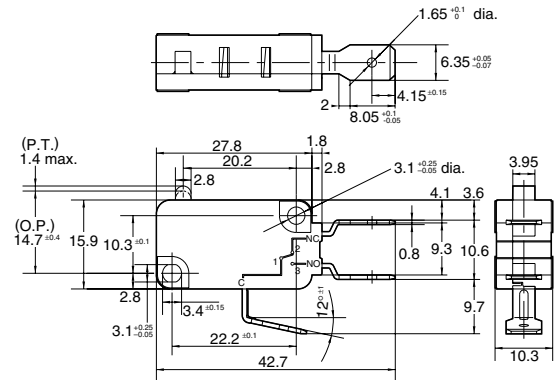
CAD Data



.187 Quick-connect terminal



.250 Quick-connect terminal

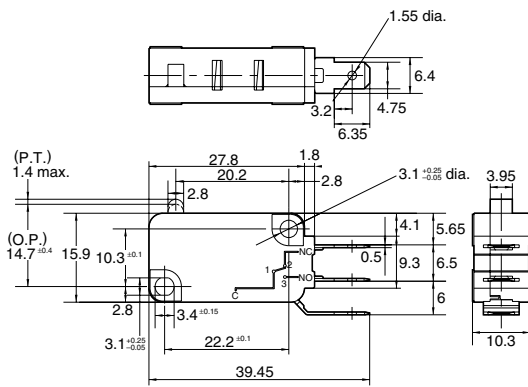


Side COM terminal

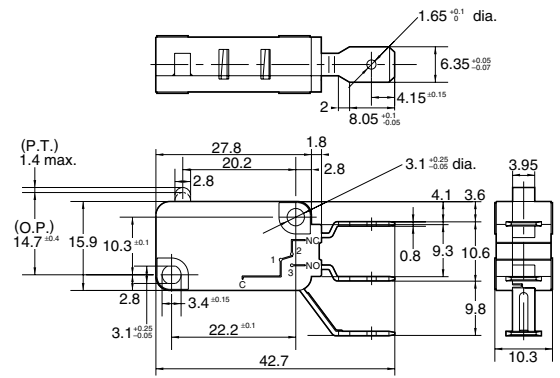
CAD Data



.187 Quick-connect terminal

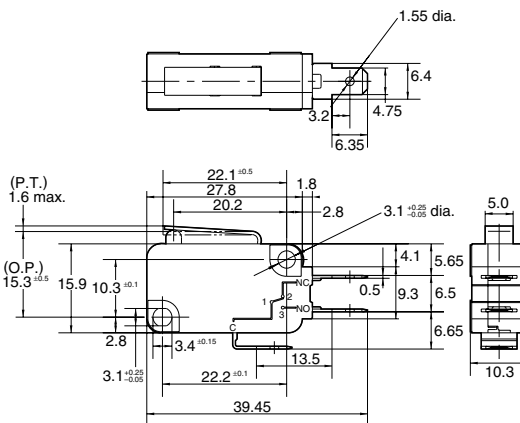


.250 Quick-connect terminal



2. Short hinge lever

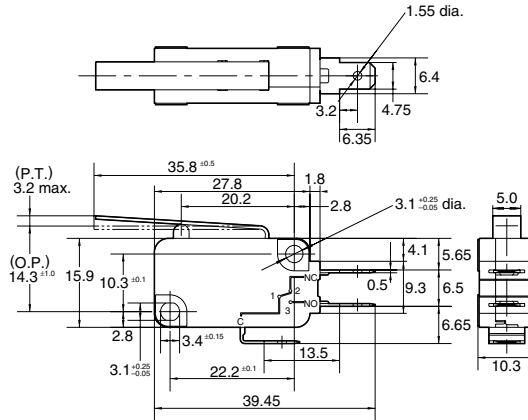
CAD Data



The dimensions other than drawn above are same as pin plunger type.

3. Hinge lever

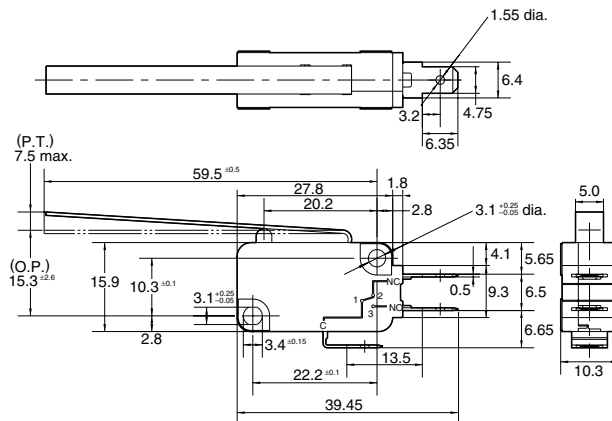
CAD Data



The dimensions other than drawn above are same as pin plunger type.

4. Long hinge lever

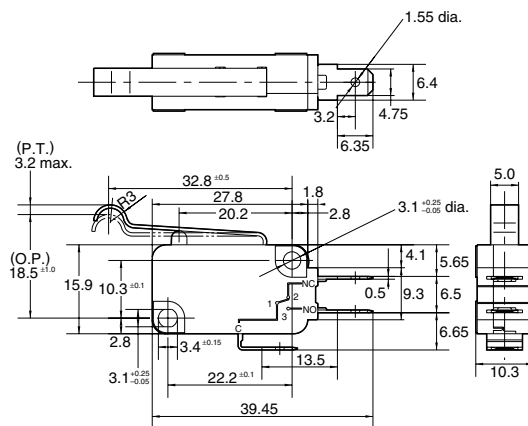
CAD Data



The dimensions other than drawn above are same as pin plunger type.

5. Simulated roller lever

CAD Data



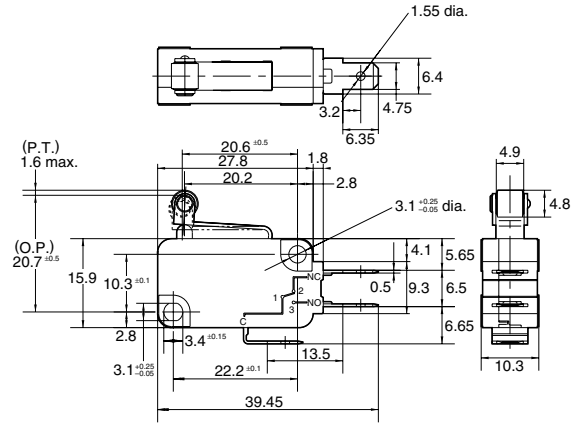
The dimensions other than drawn above are same as pin plunger type.

AM5

6. Short roller lever

mm General tolerance: ± 0.25

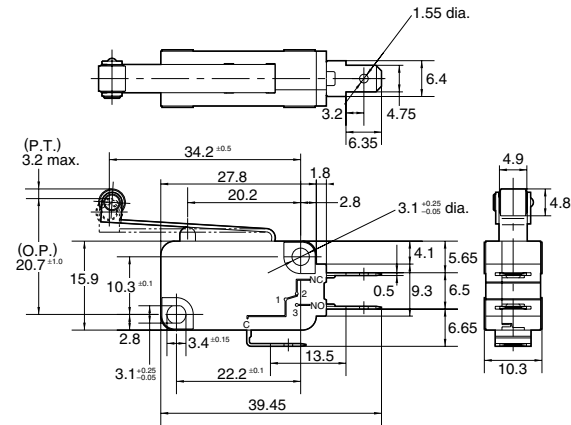
CAD Data



The dimensions other than drawn above are same as pin plunger type.

7. Hinge Roller lever

CAD Data



The dimensions other than drawn above are same as pin plunger type.

NOTES

1. Fastening of the switch body

- 1) Use flat filister head M3 screws to mount switches with less than a 0.49 N·m torque. Use of screws washers or adhesive lock is recommended to prevent loosening of the screws.
- 2) Check insulation distance between ground and each terminal.
- 3) When the operation object is in the free position, force should not be applied directly to the actuator or pin plunger. Also force should be applied to the pin plunger from vertical direction to the switch.
- 4) The standard value of overtravel should be the range of 70% to 100% of the rated O.T. value.

2. Soldering operations

Manual soldering should be accomplished within 5 seconds, with max. 350°C iron. Care should be taken not to apply force to the terminal during soldering. Terminal portions must not be moved in min. 1 minute after soldering. Also no tensile strength of lead wires should be applied to terminals.

3. Variance of operating characteristics

When specifying the switch, allow +20% to the listed operating and release forces.

4. Environment

Avoid using the switches in the following conditions;

- In corrosive gases, such as silicon gas
- In a dusty environment

5. For switching of inductive loads (relays, solenoids, etc.)

- 1) In order to prevent damage to contacts due to the occurrence of arcing, an arc absorbing circuit should be applied.
- 2) Care should be taken that occurrence in AC load possibly shorten the expected life.

6. Please assure the quality and reliability of the switch under the actual service condition.

7. It is recommended to use Gold clad contact type in use of low-level circuit rating.

8. Cover and body are press-fitted. Once it is taken apart, it may cause change of characteristics.

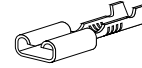
9. Cover and body are press-fitted. Once it is taken apart, it may cause change of characteristics.

USE OF CONNECTOR

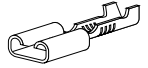
The .187 Quick-connect terminal and .250 Quick-connect terminal accept the all kinds of 1 polarity connectors and the "Positive Lock" connectors. Please contact the manufacturers directly.

• receptacle terminal

.250 series

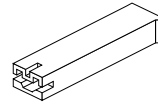


.187 series

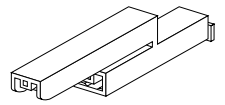


• "Positive Lock" connector. (equipped with the lock construction of low insertion type)

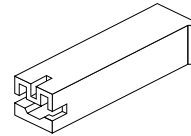
.187 type
(1 polarity)



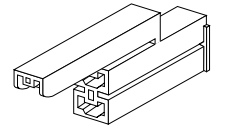
.187 type
(2 polarities)



.250 type
(1 polarity)



.187 type
(3 polarities)



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**MINIATURE SWITCHES
WITH HIGH PRECISION**
(Contact gap:
more than 1mm type)

**AM5 (QV)
SWITCHES**



- Conforms with the IEC950 standards for secondary circuit insulation distance.
Assures a contact gap of at least 1mm
- Can handle high-capacity loads on the secondary side that S-type size switches cannot
- High inrush and hard impacts resistant
- Excellent operating position precision
- UL/CSA/VDE/SEMKO/TÜV approved

Compliance with RoHS Directive

PRODUCT TYPES

Contact rating: 0.1A, 6A, 11A, 16A (250V AC)

Terminal shape: .187 Quick connect terminal, .187 Quick connect/solder terminal

For other specifications, please consult us.

DIMENSIONS AND NOTES

Please refer to Standard QV switches catalog for dimensions and notes.

SPECIFICATIONS

• Contact ratings (0.1 to 16 A)

| Voltage | Resistive load ($\cos \phi = 1.0$) | | | | Inductive load ($\cos \phi \approx 0.6$ to 0.7) | | | |
|---------|-----------------------------------------|------|------|------|--------------------------------------------------------|------|------|------|
| | 0.1A | 6A | 11A | 16A | 0.1A | 6A | 11A | 16A |
| Type | 0.1A | 6A | 11A | 16A | 0.1A | 6A | 11A | 16A |
| 250V AC | 0.1A | 6A | 11A | 16A | 0.1A | 3A | 6A | 10A |
| 125V AC | 0.1A | 6A | 11A | 16A | 0.1A | 3A | 6A | 10A |
| 125V DC | 0.1A | 0.5A | 0.6A | 0.6A | 0.1A | 0.5A | 0.6A | 0.6A |

Remark: The inductive load for DC should have a time constant of 7 ms or less.

• 0.1A type minimum load:

- 6V DC 5mA (Resistive load)
- 12V DC 2mA (Resistive load)
- 24V DC 1mA (Resistive load)

Please consult us for further information.

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