



## TS SERIES TOGGLE SWITCHES

General purpose toggle switches with secure voltage ratings and high in-rush current options.



## Applications

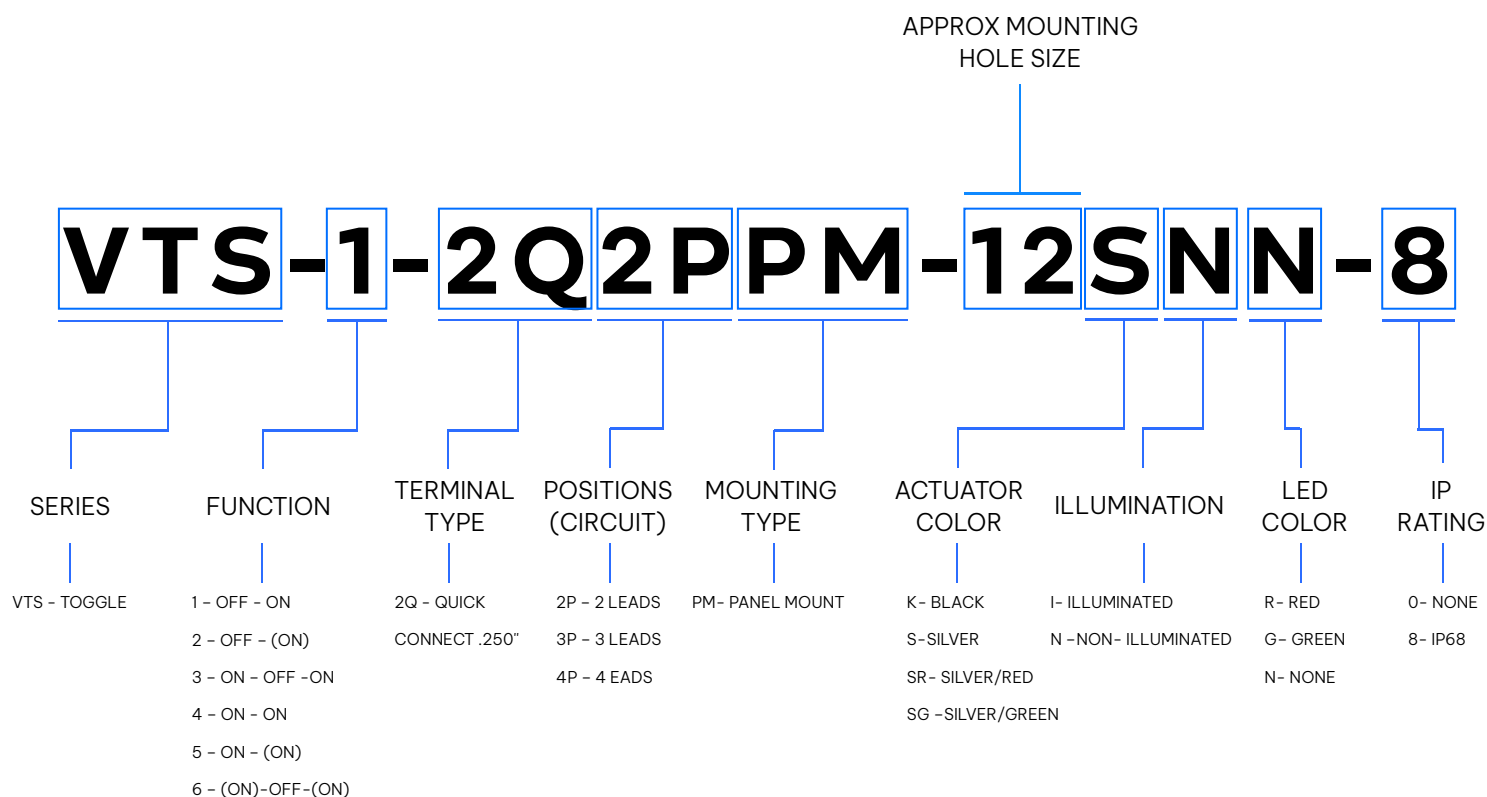
- Industrial
- Marine, Oil & Gas
- Automotive
- Automation & Controls
- Communications
- Robotics
- IoT
- Security Systems

## Key Features

- Non-illuminated & Illuminated.
- High in-rush current and voltage ratings for secure & reliable operation.
- Compact & lightweight design for easy installation.
- Robust .250" quick connect terminals.
- Secure panel mount threaded design, vibration resistant.
- Standard & IP68 rating available.
- ROHS & REACH compliant.



## SKU Offering





## Mounting Hole: 12mm

| Part Number          | Function  | Terminal Type       | Positions | Mounting Type | Actuator Color | Illumination    | Led Color | IP Rating | Page     |
|----------------------|-----------|---------------------|-----------|---------------|----------------|-----------------|-----------|-----------|----------|
| VTS-1-2Q2PPM-12SNN-8 | Off-On    | Quick Connect .250" | 2P SPST   | Panel Mount   | Silver         | Non-Illuminated | None      | IP68      | <b>4</b> |
| VTS-4-2Q3PPM-12SNN-8 | On-On     | Quick Connect .250" | 3P SPDT   | Panel Mount   | Silver         | Non-Illuminated | None      | IP68      | <b>5</b> |
| VTS-3-2Q3PPM-12SNN-8 | On-Off-On | Quick Connect .250" | 3P SPDT   | Panel Mount   | Silver         | Non-Illuminated | None      | IP68      | <b>6</b> |

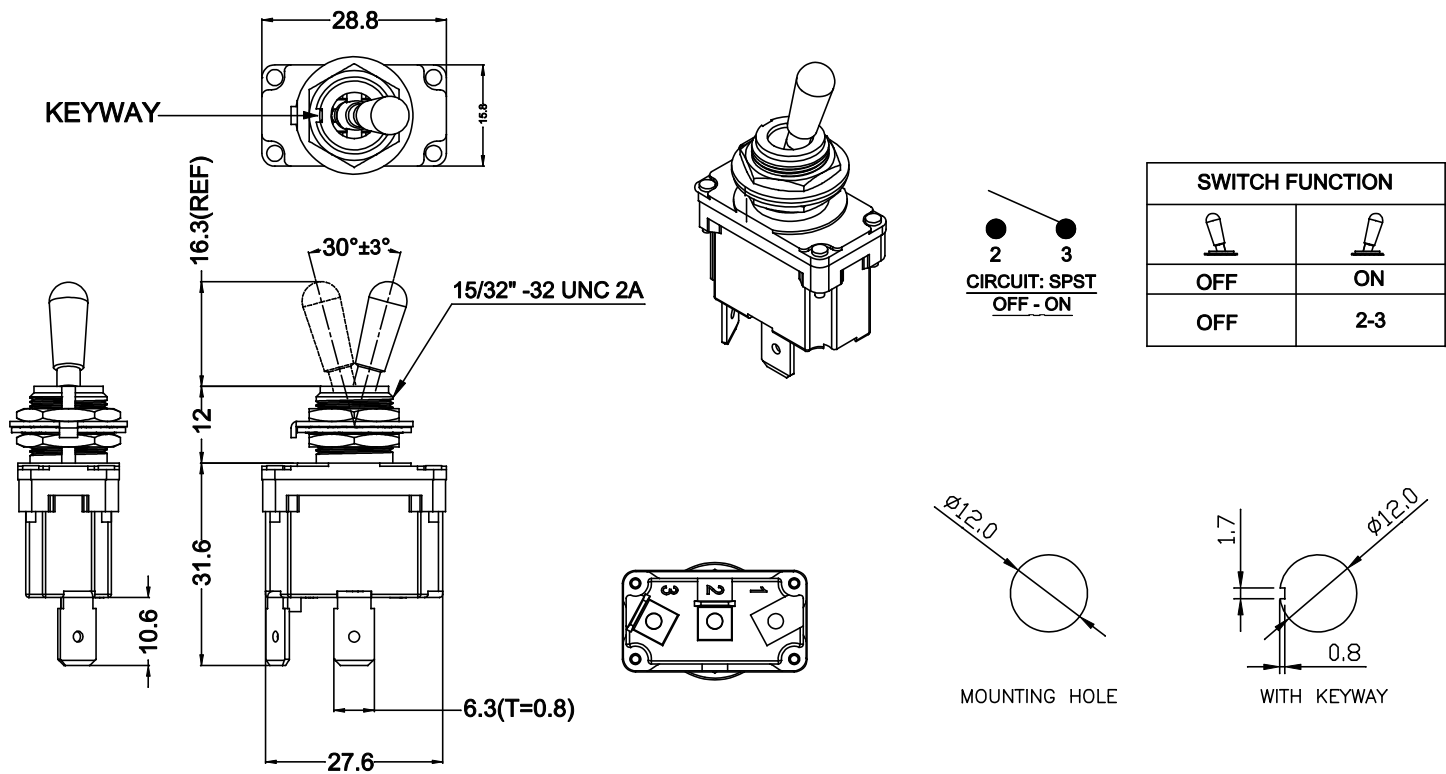
## Mounting Hole: 12.2mm

|                       |               |                     |         |             |              |                 |       |      |           |
|-----------------------|---------------|---------------------|---------|-------------|--------------|-----------------|-------|------|-----------|
| VTS-1-2Q2PPM-12SNN-0  | Off-On        | Quick Connect .250" | 2P SPST | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>7</b>  |
| VTS-2-2Q2PPM-12SNN-0  | Off-(On)      | Quick Connect .250" | 2P SPST | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>8</b>  |
| VTS-4-2Q3PPM-12SNN-0  | On-On         | Quick Connect .250" | 3P SPDT | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>9</b>  |
| VTS-5-2Q3PPM-12SNN-0  | On-(On)       | Quick Connect .250" | 3P SPDT | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>10</b> |
| VTS-3-2Q3PPM-12SNN-0  | On-Off-On     | Quick Connect .250" | 3P SPDT | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>11</b> |
| VTS-6-2Q3PPM-12SNN-0  | (On)-Off-(On) | Quick Connect .250" | 3P SPDT | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>12</b> |
| VTS-1-2Q3PPM-12SRIR-0 | Off-On        | Quick Connect .250" | 3P SPST | Panel Mount | Silver/Red   | Illuminated     | Red   | None | <b>13</b> |
| VTS-1-2Q3PPM-12SGIG-0 | Off-On        | Quick Connect .250" | 3P SPST | Panel Mount | Silver/Green | Illuminated     | Green | None | <b>14</b> |
| VTS-1-2Q4PPM-12SNN-0  | Off-On        | Quick Connect .250" | 4P DPST | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>15</b> |
| VTS-2-2Q4PPM-12SNN-0  | Off-(On)      | Quick Connect .250" | 4P DPST | Panel Mount | Silver       | Non-Illuminated | None  | None | <b>16</b> |



Product Dimensions

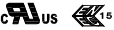
VTs-1-2Q2PPM-12SNN-8



Notes:

- 1. Tolerances unless otherwise specified:± 0.5mm
- 2. Dimensions are in millimeters (mm).
- 3. Includes 2 hex nut, 1 tooth lockwasher, 1 lock tab washer.

Product Specifications

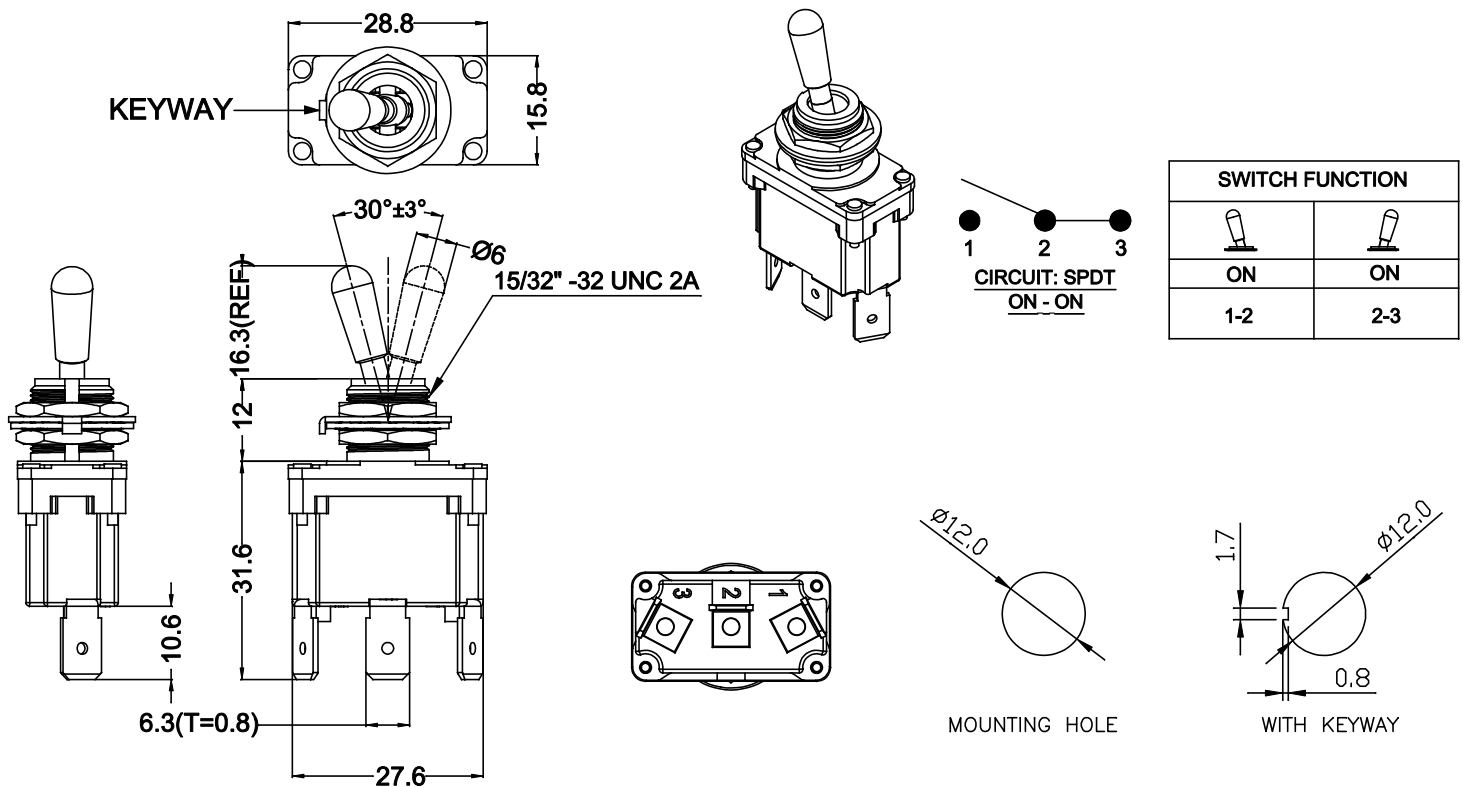
| Toggle Switch Specification |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| Electrical Life:            | 10,000 cycles  |
| Mechanical Life:            | 50,000 cycles                                                                                     |
| Contact Resistance:         | 20mΩ Initial Max.                                                                                 |
| Insulation Resistance:      | 500VDC - 100MΩ Min.                                                                               |
| Rating                      | 20A 125VAC, 8A 250 VAC                                                                            |
| IP Rating                   | IP 68                                                                                             |
| Switch Function             | 2P SPST OFF-ON                                                                                    |



|                     |                                                  |
|---------------------|--------------------------------------------------|
| Dielectric Strength | (1) 1500VAC for 1 minute (Terminal to enclosure) |
|                     | (2) 500VAC for 1 minute (Terminal)               |



## VTS-4-2Q3PPM-12SNN-8



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 2 hex nut, 1 tooth lockwasher, 1 lock tab washer.

### Product Specifications

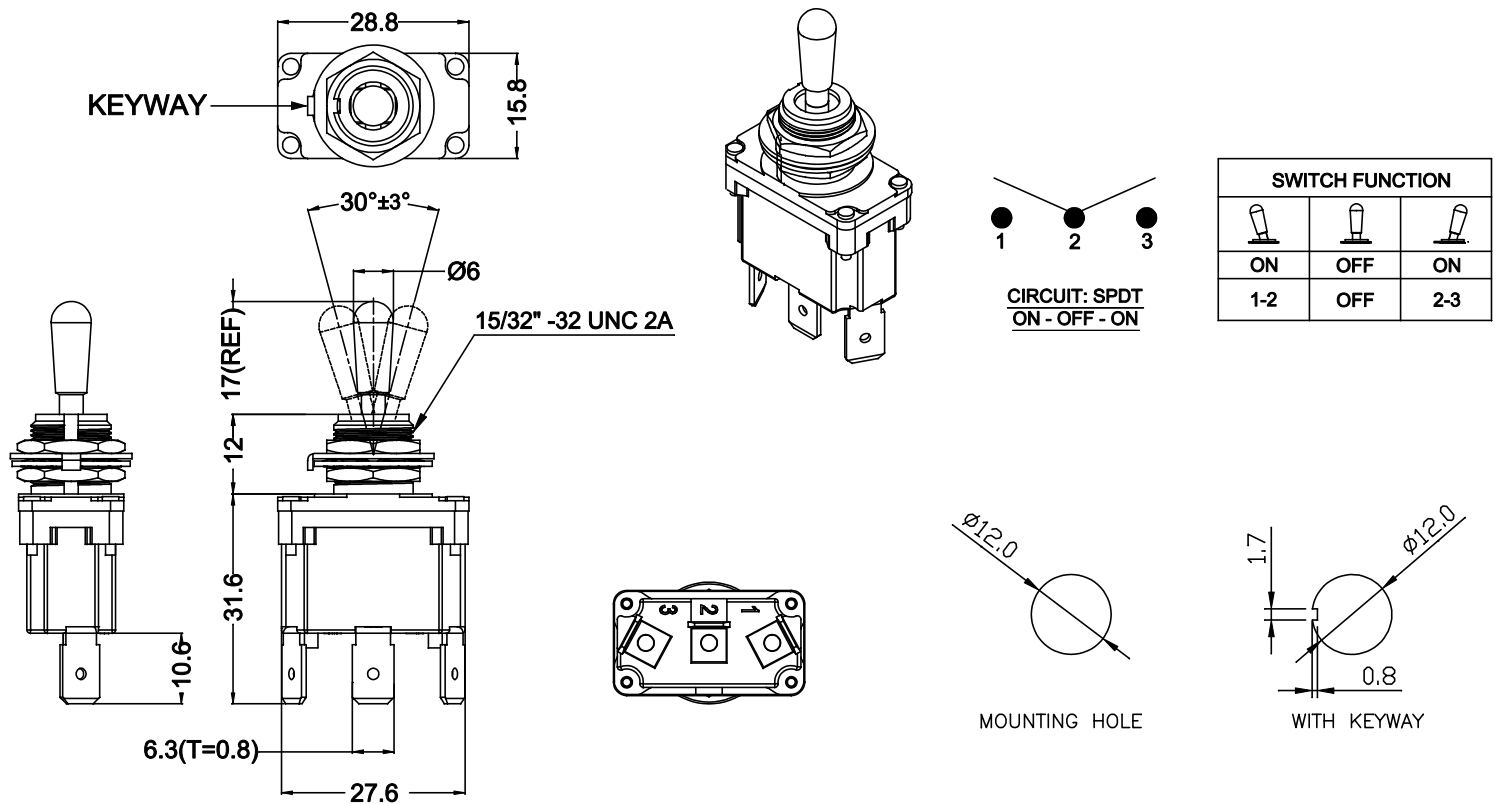
| Toggle Switch Specification |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| Electrical Life:            | 10,000 cycles  |
| Mechanical Life:            | 50,000 cycles                                                                                     |
| Contact Resistance:         | 20m $\Omega$ Initial Max.                                                                         |
| Insulation Resistance:      | 500VDC - 100M $\Omega$ Min.                                                                       |
| Rating                      | 20A 125VAC, 8A 250 VAC                                                                            |
| IP Rating                   | IP 68                                                                                             |
| Switch Function             | 3P SPDT ON-ON                                                                                     |



|                     |                                                  |
|---------------------|--------------------------------------------------|
| Dielectric Strength | (1) 1500VAC for 1 minute (Terminal to enclosure) |
|                     | (2) 500VAC for 1 minute (Terminal)               |



## VTS-3-2Q3PPM-12SNN-8



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 2 hex nut, 1 tooth lockwasher, 1 lock tab washer.

## Product Specifications

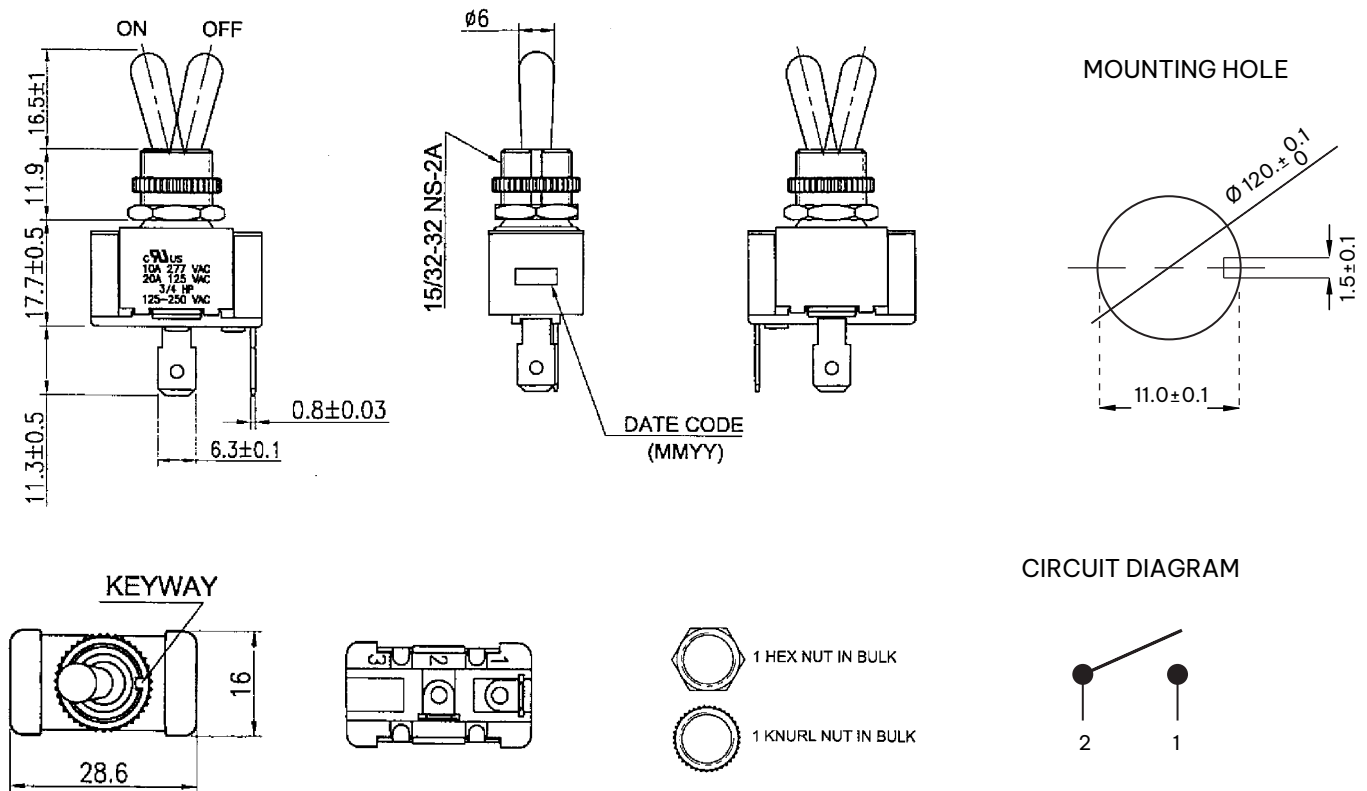
| Toggle Switch Specification |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| Electrical Life:            | 10,000 cycles  |
| Mechanical Life:            | 50,000 cycles                                                                                     |
| Contact Resistance:         | 20m $\Omega$ Initial Max.                                                                         |
| Insulation Resistance:      | 500VDC - 100M $\Omega$ Min.                                                                       |
| Rating                      | 20A 125VAC, 8A 250 VAC                                                                            |
| IP Rating                   | IP 68                                                                                             |
| Switch Function             | 3P SPDT ON-OFF-ON                                                                                 |



|                     |                                                  |
|---------------------|--------------------------------------------------|
| Dielectric Strength | (1) 1500VAC for 1 minute (Terminal to enclosure) |
|                     | (2) 500VAC for 1 minute (Terminal)               |



## VTS-1-2Q2PPM-12SNN-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

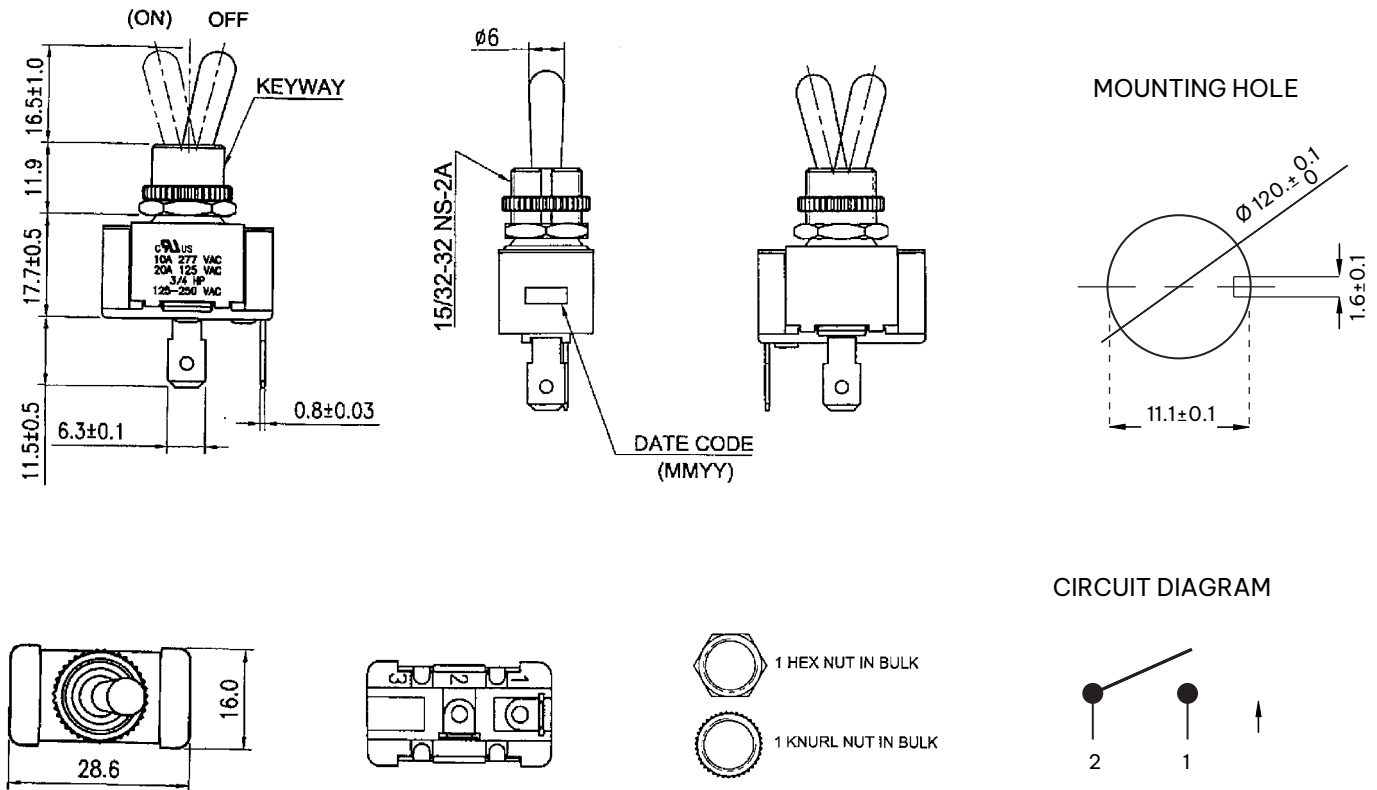
## Product Specifications

|                        |                                                 |                                                                                     |
|------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>3/4HP 125-250V AC |  |
| Contact Resistance:    | 50m ohm Max.                                    |                                                                                     |
| Insulation Resistance: | 500VDC - 100MΩ Min.                             |                                                                                     |
| Dielectric Strength    | AC 1500V 1 minute                               |                                                                                     |
| Operation Temperature: | 0°C~65°C                                        |                                                                                     |
| Switch Function        | 2P OFF-ON                                       |                                                                                     |





## VTS-2-2Q2PPM-12SNN-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

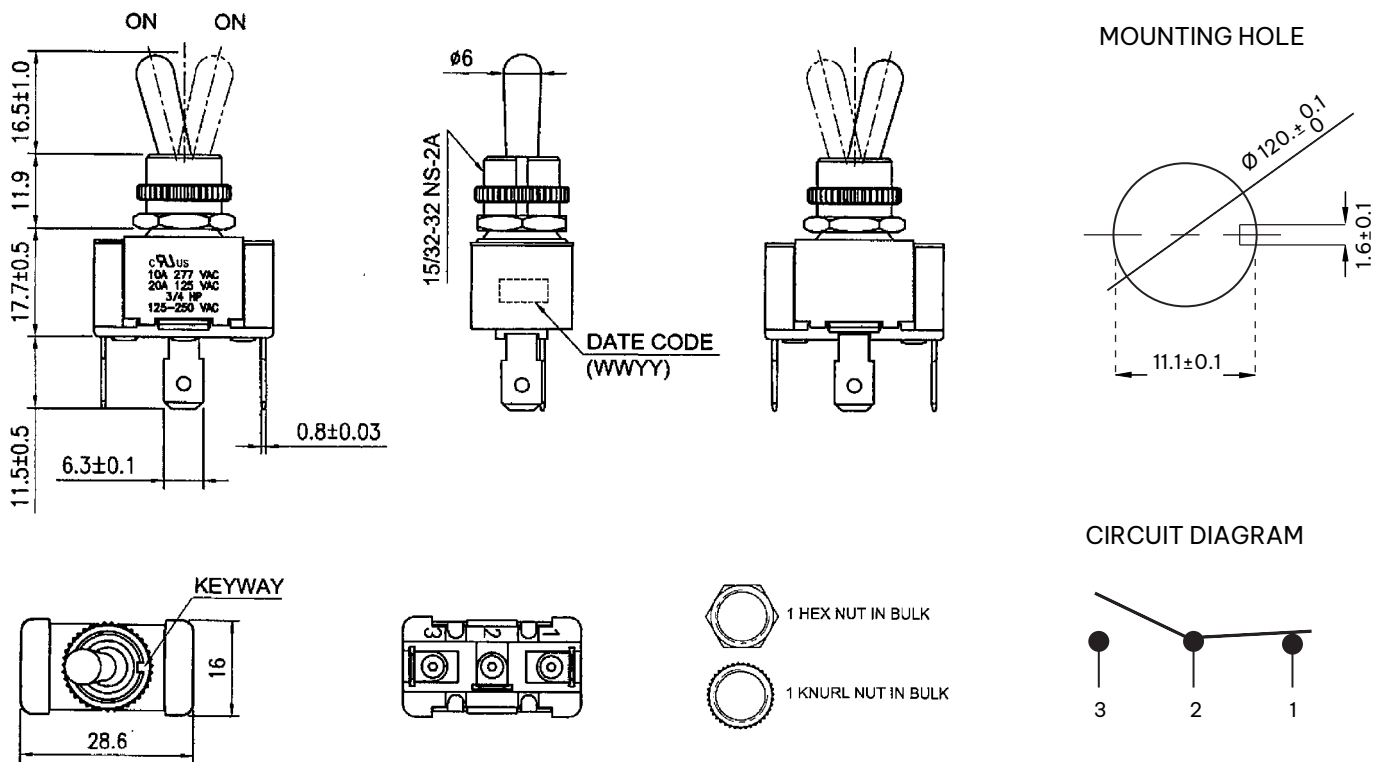
### Product Specifications

|                        |                                                 |                                                                                     |
|------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>3/4HP 125-250V AC |  |
| Contact Resistance:    | 50mΩ Max.                                       |                                                                                     |
| Insulation Resistance: | 500VDC - 100M Ω Min.                            |                                                                                     |
| Dielectric Strength:   | AC 1500V 1 minute                               |                                                                                     |
| Switch Function:       | 2P OFF - (ON)                                   |                                                                                     |
| Operation Force:       | 1100gf±400gf                                    |                                                                                     |





## VTS-4-2Q3PPM-12SNN-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

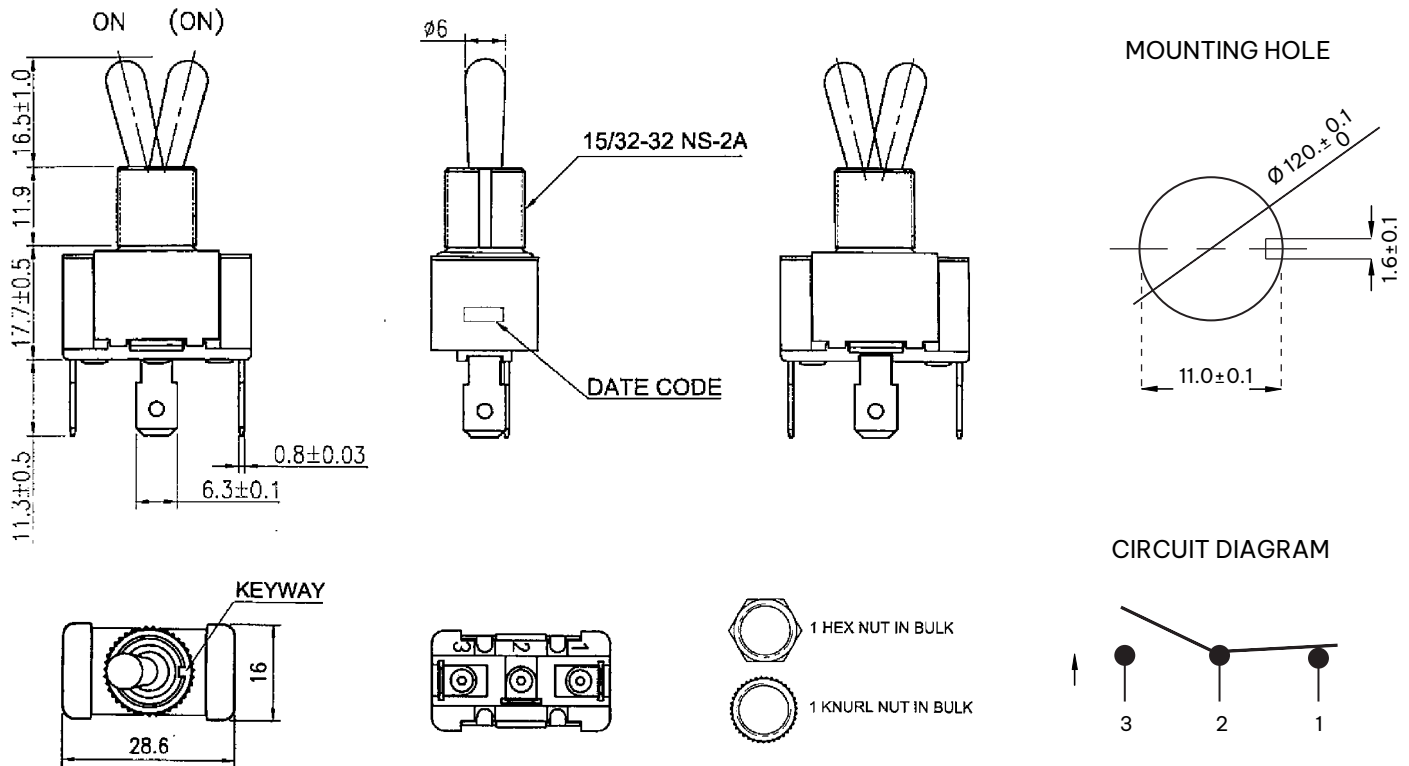
## Product Specifications

|                        |                                                 |                                                                                     |
|------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>3/4HP 125-250V AC |  |
| Contact Resistance:    | 50mΩ Max.                                       |                                                                                     |
| Insulation Resistance: | 500VDC - 100M Ω Min.                            |                                                                                     |
| Dielectric Strength:   | AC 1500V 1 minute                               |                                                                                     |
| Switch Function:       | 3P ON-ON                                        |                                                                                     |
| Operation Force:       | 700gf±250gf                                     |                                                                                     |





## VTS-5-2Q3PPM-12SNN-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

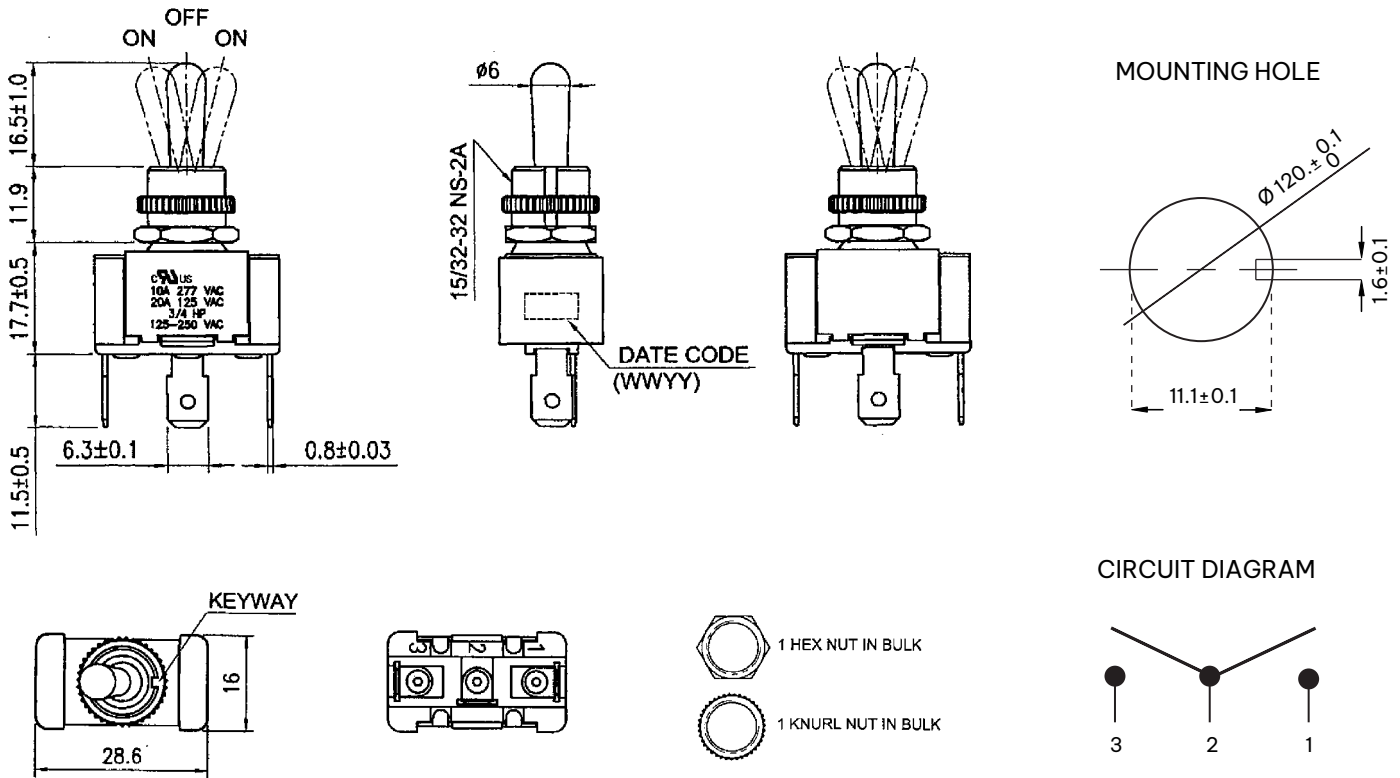
### Product Specifications

|                        |                        |
|------------------------|------------------------|
| Rating                 | 20A 125VAC, 10A 277VAC |
| Contact Resistance:    | 50mΩ Max.              |
| Insulation Resistance: | 500VDC - 100MΩ Min.    |
| Dielectric Strength:   | AC 1500V 1 minute      |
| Switch Function:       | 3P ON-(ON)             |
| Operation Temperature: | 0°C~65°C               |





## VTS-3-2Q3PPM-12SNN-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

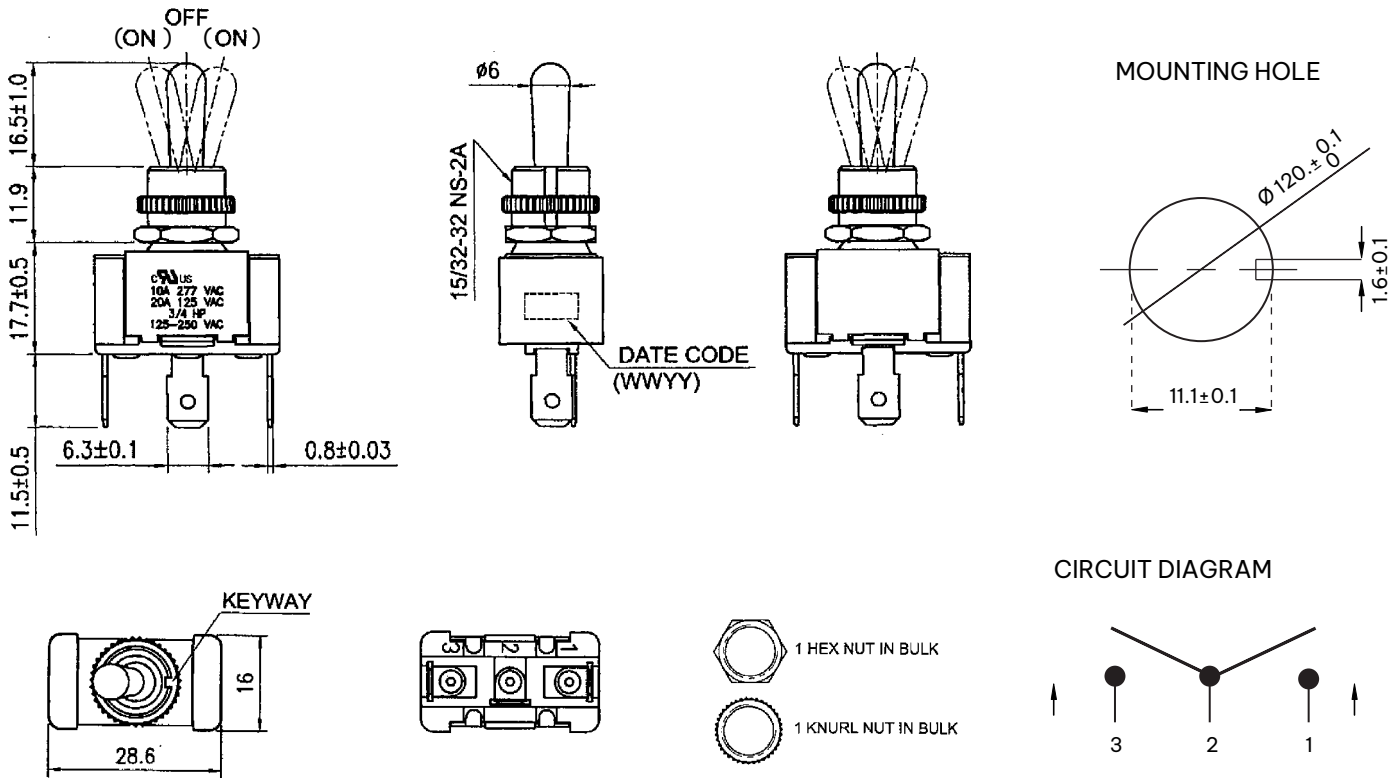
### Product Specifications

|                        |                                                 |  |
|------------------------|-------------------------------------------------|--|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>3/4HP 125-250V AC |  |
| Contact Resistance:    | 50mΩ Max.                                       |  |
| Insulation Resistance: | 500VDC - 100MΩ Min.                             |  |
| Dielectric Strength:   | AC 1500V 1 minute                               |  |
| Switch Function:       | 3P ON-OFF-ON                                    |  |
| Operation Force:       | OFF-ON 1100gf±300gf<br>ON-OFF 600gf±200gf       |  |





## VTS-6-2Q3PPM-12SNN-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

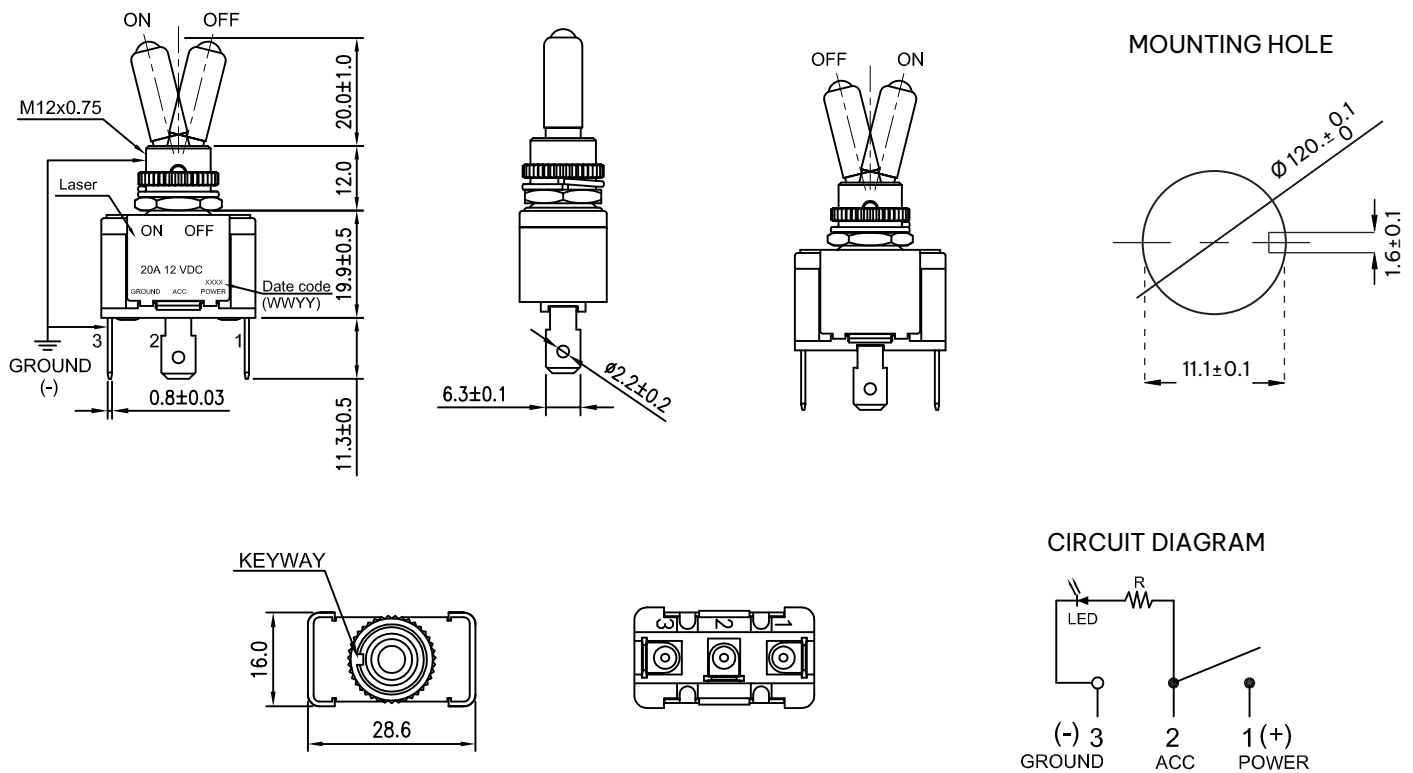
### Product Specifications

|                        |                                                 |  |
|------------------------|-------------------------------------------------|--|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>3/4HP 125-250V AC |  |
| Contact Resistance:    | 50mΩ Max.                                       |  |
| Insulation Resistance: | 500VDC - 100MΩ Min.                             |  |
| Dielectric Strength:   | AC 1500V 1 minute                               |  |
| Switch Function:       | 3P (ON)-OFF-(ON)                                |  |
| Operation Force:       | 1500gf±300gf                                    |  |





## VTS-1-2Q3PPM-12SRIR-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 spring washer, 1 knurl nut.
4. KEYWAY on "ON"

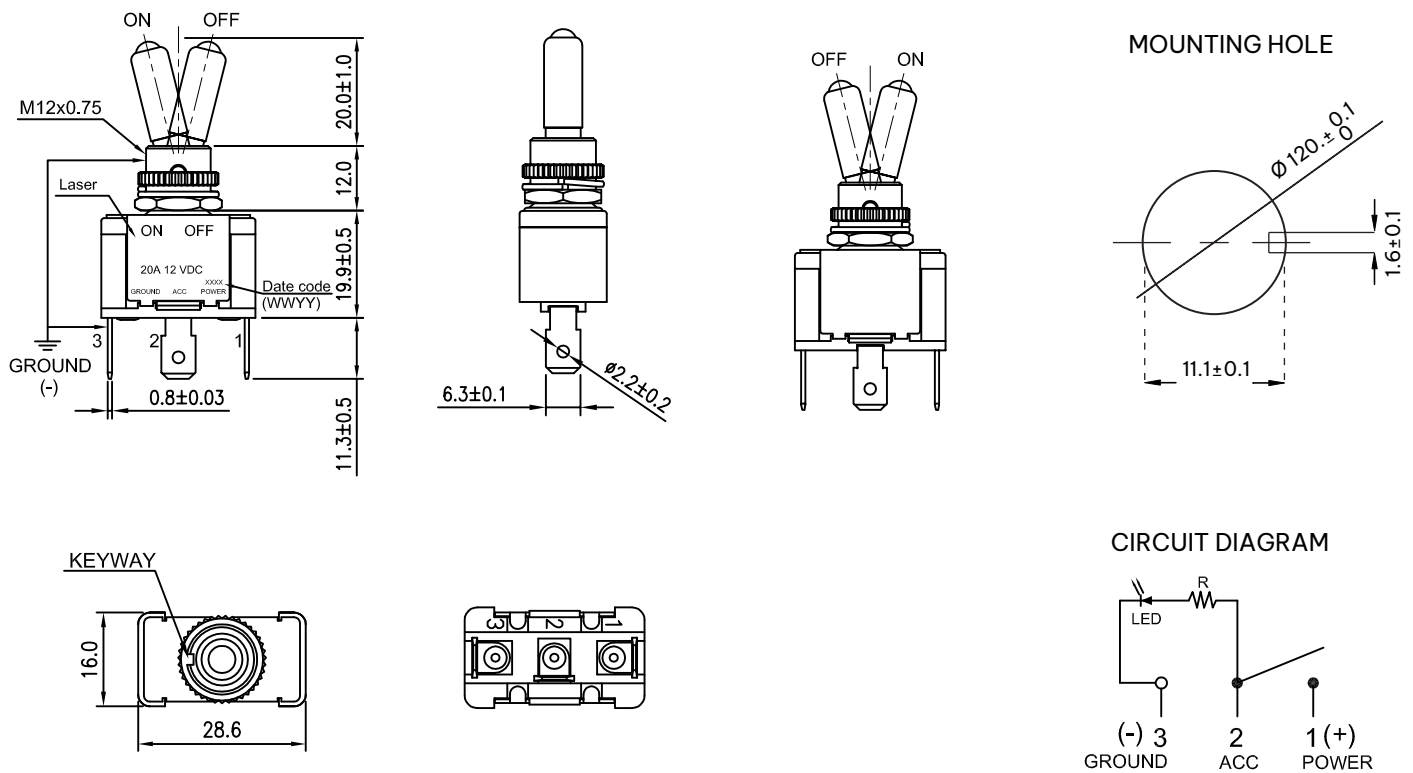
### Product Specifications

|                        |                             |
|------------------------|-----------------------------|
| Rating                 | 20A 12V DC                  |
| Contact Resistance:    | 50m $\Omega$ Max.           |
| Insulation Resistance: | 500VDC - 100M $\Omega$ Min. |
| Dielectric Strength:   | AC 1500V 1 minute           |
| Switch Function:       | 3P OFF-ON (LED Independent) |
| Operation Temperature: | -20°C~85°C                  |
| LED Color:             | Red                         |





## VTS-1-2Q3PPM-12SGIG-0



### Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 spring washer, 1 knurl nut.
4. KEYWAY on "OFF"

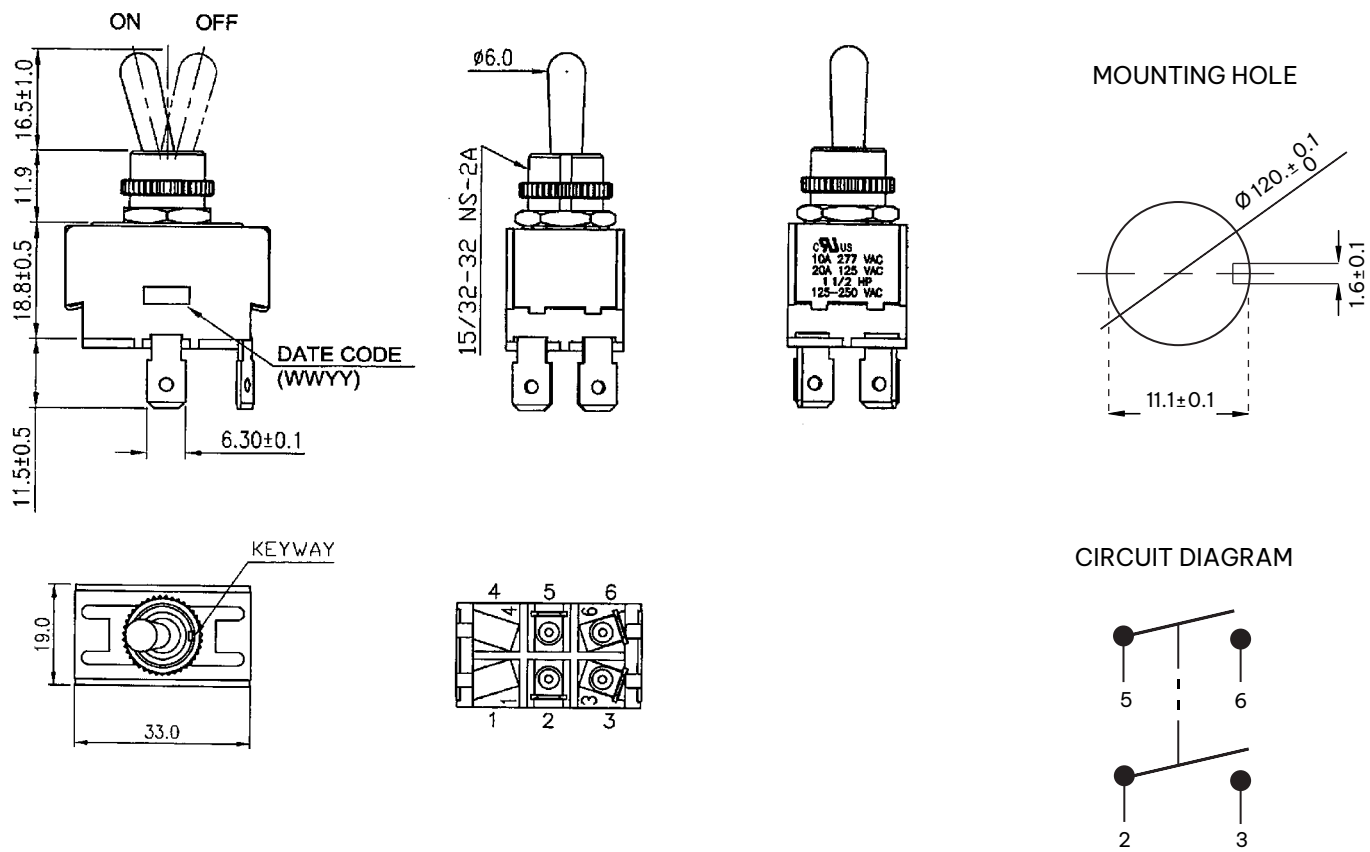
### Product Specifications

|                        |                             |
|------------------------|-----------------------------|
| Rating                 | 20A 12V AC                  |
| Contact Resistance:    | 50m $\Omega$ Max.           |
| Insulation Resistance: | 500VDC - 100M $\Omega$ Min. |
| Dielectric Strenght:   | AC 1500V 1 minute           |
| Switch Function:       | 3P OFF-ON (LED Independent) |
| Operation Temperature: | -20°C-85°C                  |
| LED Color:             | Green                       |





# VTS-1-2Q4PPM-12SNN-0



## Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
2. Dimensions are in millimeters (mm).
3. Includes 1 hex nut, 1 knurl nut.

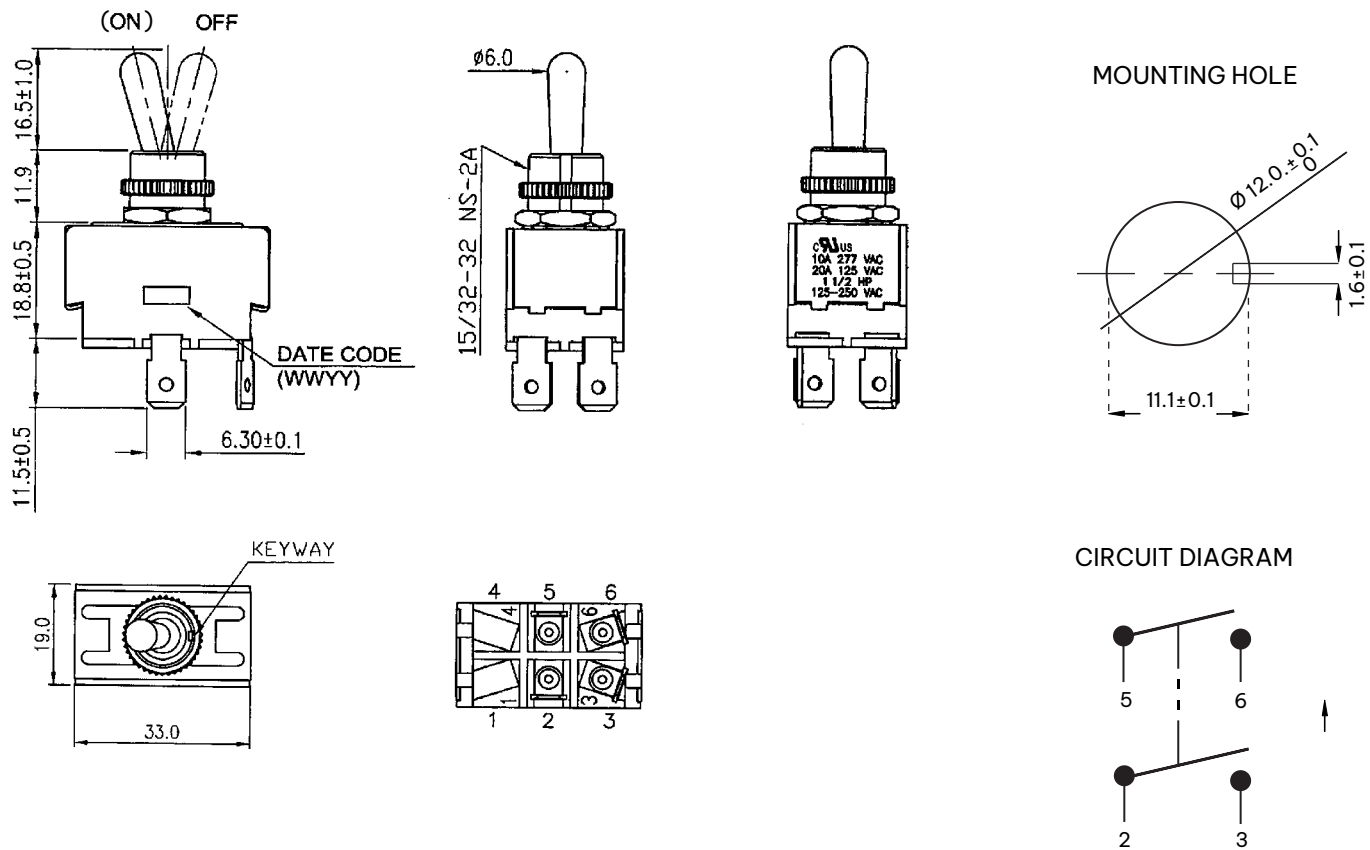
## Product Specifications

|                        |                                                  |  |
|------------------------|--------------------------------------------------|--|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>1.5 HP 125-250V AC |  |
| Contact Resistance:    | 50mΩ Max.                                        |  |
| Insulation Resistance: | 500VDC - 100MΩ Min.                              |  |
| Dielectric Strength:   | AC 1500V 1 minute                                |  |
| Switch Function:       | 4P OFF-ON                                        |  |
| Operation Force:       | 1200gf±300gf                                     |  |





VTS-2-2Q4PPM-12SNN-0



- Notes:**
- 1. Tolerances unless otherwise specified:  $\pm 0.3\text{mm}$
  - 2. Dimensions are in millimeters (mm).
  - 3. Includes 1 hex nut, 1 knurl nut.

Product Specifications

|                        |                                                  |                                                                                     |
|------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|
| Rating                 | 20A 125V AC<br>10A 277V AC<br>1.5 HP 125-250V AC |  |
| Contact Resistance:    | 50mΩ Max.                                        |                                                                                     |
| Insulation Resistance: | 500VDC - 100MΩ Min.                              |                                                                                     |
| Dielectric Strength:   | AC 1500V 1 minute                                |                                                                                     |
| Switch Function:       | 4P OFF - (ON)                                    |                                                                                     |





## Compliances and approvals

