## Approvals:

Laurent Kubat<br>Engineering Manager<br>Laurent Kubat<br>2014.02.05 15:13:39<br>+01 '00'

## Revision record:

| Revision | Date | Comments |  |
| :---: | :---: | :--- | :---: |
| - | July $9^{\text {th }} 2013$ | Creation (According to $E C R$ 9933) |  |
| A | February 5 $5^{\text {th }} 2014$ | Update: (According to $E C R$ 10671) |  |
|  |  | $-\quad$ PVA 2.2N: version cancelled |  |
|  |  | - |  |
|  | Rc: value after test with electrical load on PVA2 added |  |  |
|  |  | $-\quad$ PVA2 OA H2 1.7N: end travel height updated |  |
|  |  | $-\quad$ Travel :"initial values and values after soldering process" added |  |
|  |  | $-\quad$ Soldering process: remark on PVA positioning added |  |
|  |  |  |  |

## Summary:

1. Description / Main Features
2. Designation
3. Construction
4. Electrical data
5. Mechanical data
6. Physical data
7. Operating environment
8. Additional data : storage and handling environment
9. Additional data : process environment
10. Applicable norms

Note: This specification, attached documents and attached drawings cannot be communicated to anybody without written agreement of C\&K.

| 1 - Description PVA (Push Vertical Actuation) |  |  |
| :---: | :---: | :---: |
| - PVA1 | PVA with 2 make-contacts (DPST: Double Pole Single Throw) <br> Cts 1-2 ON <br>  <br> Cts 1'-2' OFF <br> Circuit diagram <br> Actuating diagram | PVA1 H1 |
| - PVA2 | PVA with 2 changeover contacts (DPDT: Double Pole Double Throw ) transient state : without overlap <br> Actuating diagram | PVA2 H1 |

## PVA V2 <br> rev. A

Ref. / PS-PVA-346


## PVA V2 <br> rev. A

Ref. / PS-PVA-346

## Main Features

- Self cleaning contacts
- Terminal plating: LFS
- ROHS Compliance
- Compatible with THT lead free process.
- Marking :

On product and on packaging box.

## 3-Construction

| Function | - Momentary action (OA) <br> - Push-Push (EE) |
| :---: | :---: |
| Contact type | - PVA1: 2 make contacts (DPST) <br> - PVA2: 2 change over contacts (DPDT), Non Shorting |
| Terminals | Through hole |
| 4 - Electrical data |  |
|  | Contact plating : Ag |
| Min/max power | $100 \mathrm{~mW}-3 \mathrm{~W}$ |
| Min/max voltage | $2 \mathrm{Vdc}-32 \mathrm{Vdc}$ |
| Min/max current | 1 mA - 100 mA |
| Dielectric strength | - PVA1 $\geq 1000$ Vrms <br> - PVA2 $\geq 750$ Vrms |
| Contact resistance | - Initial measurement $: \leq 100 \mathrm{~m} \Omega$ <br> - After test $: \leq 150 \mathrm{~m} \Omega$ <br> - After test with electrical load : <br> $-\mathrm{PVA} 1 \leq 1 \Omega$ <br> - PVA2 $\leq 2 \Omega$ |
| Insulation resistance | - Initial measurement : $\mathrm{Ri} \geq 100 \mathrm{M} \Omega(500 \mathrm{VDC}-60 \mathrm{~s} \pm 5$ ) <br> - After damp heat : $\mathrm{Ri} \geq 10 \mathrm{M} \Omega$ |
| Bounce time | $\leq 3 \mathrm{~ms}$ |
| 5 - Mechanical data |  |
| Travel | According to table pages 6 to 9 |
| Switching force (Fa) | According to table pages 6 to 9 |
| Overload Z direction | 40 N max (One cycle only) |
| Overload X,Y directions | 20 N max (One cycle only) |
| Resistance to button extraction | For PVA EE type in actuated position : 10 N max For all PVA types in rest position : 30 N max |
| 6 - Physical data |  |
| Dimensions \& layout | According to product drawing \# <br> - PVA1 type : CU Y17P1M000FP <br> - PVA2 type : CU Y17P2M000FP |
| 7 - Operating environment |  |
| Operating temperatures | $-40^{\circ} \mathrm{C} /+85^{\circ} \mathrm{C}\left(+70^{\circ} \mathrm{C}\right.$ with button) |
| Climatic category | 40/085/21 |
| Operating life | According to table pages 6 to 9 |
| Vibrations | $10-500 \mathrm{~Hz} / 10 \mathrm{~g} / 3$ axis / 2 h per axis According to NF EN 60068-2-6 |
| Mechanical shocks | $1 / 2$ sinusoidal / $30 \mathrm{~g} / 18 \mathrm{~ms}$ <br> 3 shocks in each direction of the 3 axis According to NF EN 60068-2-27 |


| Packaging conditions | Bulk packaging <br> - PVA with H1, H4 or H5 actuator: 1500 pieces per box <br> - PVA with H2 or H3 actuator: 1200 pieces per box |
| :---: | :---: |
| Transport conditions | According to specification NF H00-060 |
| Storage temperatures | $-40^{\circ} \mathrm{C} /+85^{\circ} \mathrm{C}$ |
| 9 - Additional data : process environment |  |
| Soldering process | Wave soldering, compatible with lead free soldering profile (according to C\&K Procedure : PS-LF-002) <br> Manual soldering : $350^{\circ} \mathrm{C} / 3 \mathrm{~s}$ <br> Remark: Customer should ensure flat maintaining of the PVA switch on the PCB to avoid gap creation once soldered. |
| Washing process | No washing |
| IP code | Standard sealing grade : IP40 |
| Moisture Sensitivity Level | MSL : 2 <br> According to JEDEC J-STD-020 |
| 10 - Applicable norms |  |
| Testing procedure (C\&K spec) | Proc-essai 16 <br> Except requirements included in this spec. |
| Legal norm (EHS) | C\&K procedure |


| Designation | Part ${ }^{\circ}$ | Ct type | Function | Terminals | Operating force Fa (N) | Operating life (1 cycle= rest/actuate d/rest) | Travel (mm) : Initial status values* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Switch height | Electrical travel/PCB* | Active position switch height / PCB* | End travel height/PCB* |
| PVA1 | Drawing number Y17P1M000FP |  |  |  |  |  |  |  |  |  |
| PVA1 EE H1 1.2N V2 | Y17P11111FP | DPST | Push-Push | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |
| PVA1 EE H1 1.2N SNA V2 | Y17P11112FP | DPST | Push-Push | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |
| PVA1 EE H1 3.5N V2 | Y17P11141FP | DPST | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |
| PVA1 EE H1 3.5N SNA V2 | Y17P11142FP | DPST | Push-Push | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |
| PVA1 EE H2 1.2N V2 | Y17P11211FP | DPST | Push-Push | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.25$ | $21.49+0.3 /-0.1$ | $20.84+0 /-0.3$ |
| PVA1 EE H2 1.2N SNA V2 | Y17P11212FP | DPST | Push-Push | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.25$ | $21.49+0.3 /-0.1$ | $20.84+0 /-0.3$ |
| PVA1 EE H2 3.5N V2 | Y17P11241FP | DPST | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.25$ | 21.49 +0.3/-0.1 | $20.84+0 /-0.3$ |
| PVA1 EE H3 1.2N V2 | Y17P11311FP | DPST | Push-Push | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.25$ | $18.99+0.3 /-0.1$ | $18.34+0 /-0.3$ |
| PVA1 EE H3 3.5N SNA V2 | Y17P11342FP | DPST | Push-Push | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.25$ | $18.99+0.3 /-0.1$ | $18.34+0 /-0.3$ |
| PVA1 EE H3 3,5N V2 | Y17P11341FP | DPST | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.25$ | $18.99+0.3 /-0.1$ | $18.34+0 /-0.3$ |
| PVA1 EE H4 1.2N V2 | Y17P11411FP | DPST | Push-Push | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |
| PVA1 EE H4 1.2N SNA V2 | Y17P11412FP | DPST | Push-Push | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |
| PVA1 EE H4 3.5N V2 | Y17P11441FP | DPST | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |
| PVA1 EE H4 3.5N SNA V2 | Y17P11442FP | DPST | Push-Push | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |

* Values after Soldering process : Upper limit increased of 0.1 mm

| Designation | Part ${ }^{\circ}$ | Ct type | Function | Terminals | Operating force $\mathrm{Fa}(\mathrm{N})$ | Operating life (1 cycle= rest/actuate $\mathrm{d} / \mathrm{rest}$ ) | Travel (mm) : Initial status values* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Switch height | Electrical travel/PCB | Active position switch height / PCB* | End travel height/PCB* |
| PVA1 OA H1 1.2N V2 | Y17P12111FP | DPST | Momentary | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | - | $15.34+0 /-0.3$ |
| PVA1 OA H1 1.2N SNA V2 | Y17P12112FP | DPST | Momentary | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | - | $15.34+0 /-0.3$ |
| PVA1 OA H1 3.5N V2 | Y17P12141FP | DPST | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | - | $15.34+0 /-0.3$ |
| PVA1 OA H1 3.5N SNA V2 | Y17P12142FP | DPST | Momentary | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.25$ | - | $15.34+0 /-0.3$ |
| PVA1 OA H2 1.2N V2 | Y17P12211FP | DPST | Momentary | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.25$ | - | $20.84+0 /-0.3$ |
| PVA1 OA H2 1.2N SNA V2 | Y17P12212FP | DPST | Momentary | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.25$ | - | $20.84+0 /-0.3$ |
| PVA1 OA H3 1.2N V2 | Y17P12311FP | DPST | Momentary | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.25$ | - | $18.34+0 /-0.3$ |
| PVA1 OA H3 1.2N SNA V2 | Y17P12312FP | DPST | Momentary | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.25$ | - | $18.34+0 /-0.3$ |
| PVA1 OA H3 3.5N V2 | Y17P12341FP | DPST | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.25$ | - | $18.34+0 /-0.3$ |
| PVA1 OA H4 1.2N SNA V2 | Y17P12412FP | DPST | Momentary | Snap-in | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | - | $12.7+0 /-0.3$ |
| PVA1 OA H4 1.2N V2 | Y17P12411FP | DPST | Momentary | Standard | $1.2 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | - | $12.7+0 /-0.3$ |
| PVA1 OA H4 3.5N V2 | Y17P12441FP | DPST | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.10 \pm 0.25$ | - | $12.7+0 /-0.3$ |
| PVA2 Drawing number Y17P2M000FP |  |  |  |  |  |  |  |  |  |  |
| PVA2 EE H1 1.7N V2 | Y17P21121FP | DPDT <br> Without overlap | Push-Push | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |
| PVA2 EE H1 1.7N SNA V2 | Y17P21122FP | DPDT <br> Without overlap | Push-Push | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Switch height | Electrical travel/PCB* | Active position switch height / PCB* | End travel height/PCB* |
| PVA2 EE H1 3.5N V2 | Y17P21141FP | DPDT <br> Without overlap | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | $15.99+0.3 /-0.1$ | $15.34+0 / 0.3$ |
| PVA2 EE H1 3.5N SNA V2 | Y17P21142FP | DPDT <br> Without overlap | Push-Push | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | $15.99+0.3 /-0.1$ | $15.34+0 /-0.3$ |
| PVA2 EE H2 1.7N V2 | Y17P21221FP | DPDT Without overlap | Push-Push | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.35$ | $21.49+0.3 /-0.1$ | $20.84+0 /-0.3$ |
| PVA2 EE H2 1.7N SNA V2 | Y17P21222FP | DPDT <br> Without overlap | Push-Push | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.35$ | $21.49+0.3 /-0.1$ | $20.84+0 /-0.3$ |
| PVA2 EE H2 3.5N V2 | Y17P21241FP | DPDT <br> Without overlap | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.35$ | $21.49+0.3 /-0.1$ | $20.84+0 /-0.3$ |
| PVA2 EE H3 1.7N V2 | Y17P21321FP | DPDT <br> Without overlap | Push-Push | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.35$ | $18.99+0.3 /-0.1$ | $18.34+0 /-0.3$ |
| PVA2 EE H3 1.7N SNA V2 | Y17P21322FP | DPDT <br> Without overlap | Push-Push | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.35$ | $18.99+0.3 /-0.1$ | 18.34 +0/-0.3 |
| PVA2 EE H3 3.5N V2 | Y17P21341FP | DPDT <br> Without overlap | Push-Push | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.35$ | $18.99+0.3 /-0.1$ | 18.34 +0/-0.3 |
| PVA2 EE H4 1.7N V2 | Y17P21421FP | DPDT <br> Without overlap | Push-Push | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.1 \pm 0.35$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |
| PVA2 EE H4 1.7N SNA V2 | Y17P21422FP | DPDT <br> Without overlap | Push-Push | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.1 \pm 0.35$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |
| PVA2 EE H4 3.5N SNA V2 | Y17P21442FP | DPDT <br> Without overlap | Momentary | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.1 \pm 0.35$ | $13.35+0.3 /-0.1$ | $12.7+0 /-0.3$ |
| PVA2 OA H1 1.7N V2 | Y17P22121FP | DPDT <br> Without overlap | Momentary | Standard | $1.7 \pm 25 \%$ | $\geq 1.10{ }^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | - | $15.34+0 / 0.3$ |
| PVA2 OA H1 1.7N SNA V2 | Y17P22122FP | $\begin{gathered} \text { DPDT } \\ \text { Without overlap } \end{gathered}$ | Momentary | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | - | $15.34+0 /-0.3$ |
| PVA2 OA H1 3.5N V2 | Y17P22141FP | DPDT Without overlap | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | - | $15.34+0 /-0.3$ |

[^1]| Designation | Part ${ }^{\circ}$ | Ct type | Function | Terminals | Operating force $\mathrm{Fa}(\mathrm{N})$ | Operating life (1 cycle= rest/actuate d/rest) | Travel (mm) : Initial status values* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Switch height | Electrical travel/PCB* | Active position switch height / PCB* | End travel height/PCB* |
| PVA2 OA H1 3.5N SNA V2 | Y17P22142FP | DPDT <br> Without overlap | Momentary | Snap-in | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $17.54 \pm 0.2$ | $16.74 \pm 0.35$ | - | $15.34+0 /-0.3$ |
| PVA2 OA H2 1.7N V2 | Y17P22221FP | DPDT <br> Without overlap | Momentary | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $23.04 \pm 0.2$ | $22.24 \pm 0.35$ | - | $20.84+0 /-0.3$ |
| PVA2 OA H3 1.7N V2 | Y17P22321FP | DPDT <br> Without overlap | Momentary | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.35$ | - | $18.34+0 /-0.3$ |
| PVA2 OA H3 3.5N V2 | Y17P22341FP | DPDT <br> Without overlap | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10{ }^{5}$ | $20.54 \pm 0.2$ | $19.74 \pm 0.35$ | - | $18.34+0 /-0.3$ |
| PVA2 OA H4 1.7N V2 | Y17P22421FP | DPDT Without overlap | Momentary | Standard | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.1 \pm 0.35$ | - | $12.7+0 /-0.3$ |
| PVA2 OA H4 1.7N SNA V2 | Y17P22422FP | DPDT <br> Without overlap | Momentary | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $14.9 \pm 0.2$ | $14.1 \pm 0.35$ | - | $12.7+0 /-0.3$ |
| PVA2 OA H4 3.5N V2 | Y17P22441FP | DPDT <br> Without overlap | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10{ }^{5}$ | $14.9 \pm 0.2$ | $14.1 \pm 0.35$ | - | $12.7+0 /-0.3$ |
| PVA2 OA H5 1.7N V2 | Y17P22521FP | DPDT Without overlap | Momentary | Standard | $1.7 \pm 25 \%$ | $\geq 1.10{ }^{5}$ | $13 \pm 0.2$ | $11.9 \pm 0.35$ | - | $11.0+0 /-0.4$ |
| PVA2 OA H5 1.7N SNA V2 | Y17P22522FP | DPDT Without overlap | Momentary | Snap-in | $1.7 \pm 25 \%$ | $\geq 1.10^{5}$ | $13 \pm 0.2$ | $11.9 \pm 0.35$ | - | $11.0+0 /-0.4$ |
| PVA2 OA H5 3.5N V2 | Y17P22541FP | DPDT <br> Without overlap | Momentary | Standard | $3.5 \pm 15 \%$ | $\geq 1.10^{5}$ | $13 \pm 0.2$ | $11.9 \pm 0.35$ | - | $11.0+0 /-0.4$ |

* Values after Soldering process : Upper limit increased of 0.1 mm

| Button | Drawing $\mathrm{N}^{\circ}$ |
| :---: | :---: |
| PE | $285-0102-000$ |
| PV | $285-0105-000$ |


[^0]:    * Values after Soldering process : Upper limit increased of 0.1 mm

[^1]:    * Values after Soldering process : Upper limit increased of 0.1 mm

