## TAPE SWITCHES INFORMATION

OJIDEN's tape switches are exported to countries around the world. While used primarily in factory automation (FA)-related equipment in securing safety, they are now finding applications in our mmediate surroundings in the way of automating homes/shops (HA) and becoming part of medica equipment, all thanks to their globally acclaimed high performance and reliability

## Construction and Operating Principles of Tape Switches

As its name suggests, the switch is shaped in the form of a tape containing a snap-action contact. It is made of lengths of lates are thickly coated by copper-plating and held together w Mylar (PET) film in between them serving as an insulator and with sheathing (PVC) formed by extrusion molding on the
outside.


Contact Construction 1a (snap action)


| Typical Construction of a Tape Switch |
| :--- |
| (1) External sheathing (PVC, polvwinyl ch |

(1) External sheathing (PVC, polyvinyl chloride)
(2) Upper insulator (Mylar film)
(3) Upper conducting plate (phosphor bronze)
(4) Intermediatellower insulator (Mylar film)
(5) Lower conducting plate (copper-plated steel)

## Points to Note When Ordering Tape Switches

(1) Indicate the model and the total length (L).
2) Indicate the length ( $L$ ) of the lead wire and the lead-out configuration in terrs of 2 -wire ( 1 -ended) and 4 -wire ( 2 -ended)
In the absence of indiciation, a 2 -wire type (1-ended) ) will be shippec.
(3) For outdoor uses, clearly indicate the need for extra wate proofing and other requirements.


| Dimensions Model | $\begin{aligned} & \text { 02A } \\ & 8828 \\ & 808 \end{aligned}$ | ${ }_{\substack{21818 \\ 418}}^{\text {P }}$ |
| :---: | :---: | :---: |
| 2/4.4.Wire typ enor-sensing poption (11/2) | 25 | 20 |
| 2-4/4.Wire lead wie (L) | 500 | 500 |



Bending Characteristics (tape switch)



Ratings

| Rated voltage/current | ACIDC28V-1A |
| :---: | :---: |
| Withstand voltage | AC 500V (1 min) |
| Contact life | 1,000,000 activations (esesed with reay, 24V, 0.3 A Aloat) or |
| Operating force |  |
| Insulation resistance | $100 \mathrm{M} \Omega$ or more (by 500 VDC insulation tester) |
| Contact resistar | $1.0 \mathrm{M} \Omega$ or less (fi under operating force or more) |
| Operaing temperatur range | $-10^{\circ} \mathrm{C} \sim+60^{\circ} \mathrm{C}$ |
| Withstand load | 1470 N (150 kgf; underp900 pressing plate for 1 min |
| Waterproofing property | Water-tight, drip-proof (1P-54 equivalent) |
| Lead wire | W/ VFF ( $0.75 \mathrm{~mm}, 0.5 \mathrm{~m}$; standard) ※OT-80P: w/ VFF ( $0.5 \mathrm{~mm} 2,0.5 \mathrm{~m}$ ) |

