## Special SICONT Limit Switches Type 3SE3

## Introduction :

Limit switches are used to determine the position of moving machine parts, doors or objects and to convert these positions into electrical signals for further processing in the control circuit. Special executions of SICONT 3SE3 limit switches are offered to suit various applications requiring ring cable lug termination.

## Standards :

The 3SE3 limit switches conform to the following standards :

- Electro mechanical control switches according to
IS 13947-5-1-3
IEC947-5-1-3


## Construction :

Special 3SE3 limit switches are designed to enable easy termination of ring cable lugs. All contact blocks have a black moulded plastic housing, in which the fixed contacts are accomodated. The moving contacts are located on the plastic slider (spring loaded) which performs double break operation. An extension plunger is also provided. These limit switches are available with 2 or 3 contacts.

## Contact reliability :

Each moving contact actually comprises two parallel moving contacts. This increases the contact
reliability even when the switch has to be operated with low voltages and currents i.e. 5VDC/1 mA.

## Positive Opening :

The NC contact of the limit switch is forced open mechanically by the plunger (Positive Opening). In order to ensure this positive opening, the limit switch must be actuated in such a way that the nominal stroke is substantially exceeded. In addition to this, the NO contact closes only after the NC contact has opened.

Technical Details


Selection Table:

| Description | Contacts |  | Type | Std. <br> Pkg. <br> (Nos.) |
| :---: | :---: | :---: | :---: | :---: |
|  | Arrangement | No. of Contacts |  |  |
| Special Limit s/w (open): $1 \mathrm{NO}+1 \mathrm{NC}$ | Normal | 1NO+1NC | 3SE3 020-0AZ1 | 10 |
| Special Limit s/w (open): $1 \mathrm{NO}+2 \mathrm{NC}$ | Normal | 1NO+2NC | 3SE3 023-0AZ1 | 10 |
| Special Limit s/w (open): $2 \mathrm{NO}+1 \mathrm{NC}$ | Normal | 2NO+1NC | 3SE3 023-1AZ1 | 10 |

## Travel Diagram

| Diagram <br> Terminal Designation to DIN EN 50013 | Order No. <br> Weight approx. <br> kg | Nominal travel related terminals <br> 0-line commencement of plunger travel <br> contact closed <br> contact open <br> operating point on return <br> positive opening to IEC 947-5-1-3 <br> along plunger perpendicular to plunger axis $a=30^{\circ}$ | Minimum force required along plunger axis |
| :---: | :---: | :---: | :---: |
| Slow-action contacts, 6 mm stroke; 2 contacts |  |  |  |
|  | 3SE3 020-0AZ1 $\bigodot 0.035$ |  | 8 |
| Slow action contacts, 6 mm stroke, 3 Contacts |  |  |  |
|  | $\begin{array}{ll} \text { 3SE3 023-0AZ1 } & 0.055 \\ & \\ \text { 3SE3 023-1AZ1 } & 0.055 \end{array}$ |  | 11 $13$ |

## Dimensions in mm




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