## Application

Limit switch for aggressive atmospheres: oil and gas industries, power generation...
Devices including 1 or 2 "R" type Microswitches.

- Operating temperature:
- terminal box with cable gland output: $-30 \ldots+85^{\circ} \mathrm{C}$
- reticulated synthetic rubber insulated cable output: $-30 \ldots+120^{\circ} \mathrm{C}$
- PVC insulated cable output: $-30 \ldots+65{ }^{\circ} \mathrm{C}$
- Ratings ( 220 V a.c. -50 Hz voltage): 2.5 A .
- Degree of protection: IP66 / IP67.
- Mechanical service life: 100000 cycles.


## Description

Environment sealed limit switch including an encapsulated snap-action switch.

- Painted aluminium alloy casing.
- Stainless steel driving shaft.
- Clockwise or counterclockwise operation design available.
- Rotary arm actuator.
- Mounting holes for M5 screws on 4 sides of the casing.
- Available terminations:
- sealed terminal box with cable-gland integral with the limit switch,
- reticulated synthetic rubber Varpen ${ }^{\circledR}$ cable insulated, (conductors $1 \mathrm{~mm}^{2}$ ) or PVC insulated (conductors $1.5 \mathrm{~mm}^{2}$ )

Environmental characteristics
( For other test results, please contact us )

| Salt spray resistance | 96 hours |
| :--- | :--- |
| Temperature variations | $-40^{\circ} \mathrm{C} /+70^{\circ} \mathrm{C} ; 30 \mathrm{~min}$. steps, 5 cycles |
| Mechanical shocks | $50 \mathrm{~g}-$ duration 11 ms (pulse shape $=1 /{ }^{\prime}$ sinus) 18 shocks ( $3 /$ direction, both of 3 orthogonal axis) |
| Sinusoidal vibrations | $10 \_500 \mathrm{~Hz}, 5 \mathrm{~g}$ in each of 3 orthogonal axis |

## Mechanical characteristics

Characteristics according to the actuating point (arrow) indicated on dimension drawings.

(1) Do not exceed this value in use

Note: Characteristics recorded with an actuating arm on the limit switch

## Electrical characteristics

| Ratings <br> (electrical load on one throw only) | $30 . . .48 \mathrm{~V}$ d.c. | 115 V d.c. | 220 V d.c. | 250 V a.c. - 50 Hz |
| :---: | :---: | :---: | :---: | :---: |
| - resistive load A | 2.5 | 1 | 0.4 | 2.5 |
| - inductive load A | $\begin{aligned} & 1.8(\mathrm{~L} / \mathrm{R} \leq 40 \mathrm{~ms}) \\ & 100000 \\ & 5 \end{aligned}$ | 0.5 (L/R $\leq 40 \mathrm{~ms}$ ) | 0.25 (L/R $\leq 25 \mathrm{~ms}$ ) | $1.5(\cos \varphi \geq 0.3)$ |
| Electrical service life cycles |  |  |  |  |
| Min. switched current mA |  |  |  |  |
| Acceptable overload current without switching |  |  |  |  |
| - permanent service A | 60 A (during 100 ms , at ambient temperature) |  |  |  |
| - for short time A |  |  |  |  |
| Dielectric strength ( $50 \mathrm{~Hz}-1 \mathrm{mn}$ ) |  |  |  |  |
| - between terminals V a.c. | 500 |  |  |  |
| - between all terminals and earth (ground) $\mathbf{V}$ a.c. | 1500 |  |  |  |
| Insulation resistance M | $\geq 100 \mathrm{M} \Omega$ under 500 V d.c. (at $23{ }^{\circ} \mathrm{C}$ with $<80 \%$ relative humidity) |  |  |  |

## Specific Products - Contact us for more information ; data sheet on request.

Among the large number of possible variants, the following ones are offered:
-Devices with connector.
-EDF (French Electricity Supply Board) certified limit switches for nuclear environment use.
$\bullet$ F5705, F5777 (1-pole) and F5778, F5779 (2-pole) limit switches with Teflon ${ }^{\circledR}$ insulated cables, for operating temperatures up to $160{ }^{\circ} \mathrm{C}$
-The possibility to include R type Microswitches whose breaking capacity = 5 Amperes.

- Low differential movement F22 / F23 limit switch types.

