## Eaton NEMA Limit Switches

## F25 Series NEMA Limit Switches

- 9 side rotary heads available
-90-degree adjustable head. Levers are adjustable to any angle on the operating shaft.
- Die-cast zinc housing for industrial applications
- Fully assembled out of box
- SPDT and DPDT snap action configurations available
- $1 / 2$ inch NPT conduit opening
- Contact patterns similar to those of leading competitors

| F25 Serics NEMA Limit Swhtches |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Price | Drawing Link | Actuator Type | Snap Action Contacts | Travel to Operate Contacts | Total <br> Travel | Force to Operate Contacts | Photo |
| Side Rotary |  |  |  |  |  |  |  |  |
| F25ASRL200 | \$155.00 | PDF | 1.5 inch stainless steel lever with Nylatron roller | (1) N.O./(1) N.C. | $5^{\circ}$ | $90^{\circ}$ | $\begin{gathered} 3 \mathrm{lb} \cdot \mathrm{in} \\ {[0.34 \mathrm{~N} \cdot \mathrm{~m}]} \end{gathered}$ |  |
| F25BSRL200 | \$191.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL355 | \$155.00 | PDF | 1.5 inch stainless steel lever with metal roller | (1) N.O./(1) N.C. |  |  |  | B |
| F25BSRL355 | \$191.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL549 | \$170.00 | PDF | 2 inch stainless steel lever with metal roller | (1) N.O./(1) N.C. |  |  |  | C |
| F25BSRL549 | \$206.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL551 | \$171.00 | PDF | 3 inch stainless steel lever with metal roller | (1) N.O./(1) N.C. |  |  |  | D |
| F25BSRL551 | \$207.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL548 | \$171.00 | PDF | 3 inch stainless steel lever with Nylatron roller | (1) N.O./(1) N.C. |  |  |  | E |
| F25BSRL548 | \$207.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL539 | \$177.00 | PDF | Adjustable stainless steel lever with ball bearing roller | (1) N.O./(1) N.C. |  |  |  | F |
| F25BSRL539 | \$212.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL201 | \$170.00 | PDF | Side rotary adjustable stainless steel lever with Nylatron roller | (1) N.O./(1) N.C. |  |  |  | G |
| F25BSRL201 | \$206.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL421 | \$170.00 | PDF | Adjustable spring stainless steel rod | (1) N.O./(1) N.C. |  |  |  | H |
| F25BSRL421 | \$206.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASRL142 | \$170.00 | PDF | 6 inch Nylatron loop | (1) N.O./(1) N.C. |  |  |  | I |
| F25BSRL142 | \$206.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |



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- 12 push and 6 wobble heads available
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- 1/2 in NPT conduit opening
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| F25 Series NEMA Limit Switches |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Price | Drawing Link | Actuator Type | Snap Action Contacts | Travel to Operate Contacts | Total Travel | Force to Operate Contacts | Photo |
| Side Push |  |  |  |  |  |  |  |  |
| F25ASP1 | \$161.00 | PDF | Side metal plunger | (1) N.O./(1) N.C. | $\begin{gathered} 0.065 \mathrm{in} \\ {[1.651 \mathrm{~mm}]} \end{gathered}$ | $\begin{gathered} 0.290 \mathrm{in} \\ {[7.366 \mathrm{~mm}]} \end{gathered}$ | $\begin{gathered} { }_{[1.81 \mathrm{bg}} \end{gathered}$ |  |
| F25BSP1 | \$204.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  | A |
| F25ASP2 | \$183.00 | PDF | Side metal plunger adjustable | (1) N.O./(1) N.C. |  |  |  | B |
| F25BSP2 | \$224.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ASP3 | \$183.00 | PDF | Side metal plunger with metal roller | (1) N.O./(1) N.C. |  |  |  | c |
| F25BSP3 | \$219.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| Top Push |  |  |  |  |  |  |  |  |
| F25ATP1 | \$146.00 | PDF | Metal plunger | (1) N.O./(1) N.C. | $\begin{gathered} 0.040 \mathrm{in} \\ {[1.00 \mathrm{~mm}]} \end{gathered}$ | $\begin{gathered} 0.280 \mathrm{in} \\ {[7.366 \mathrm{~mm}]} \end{gathered}$ | $\begin{gathered} { }_{[1.81 \mathrm{bg}]} \end{gathered}$ |  |
| F25BTP1 | \$192.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| F25ATP2 | \$183.00 | PDF | Metal plunger adjustable | (1) N.O./(1) N.C. |  |  |  | E |
| F25BTP2 | \$224.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  | E |
| F25ATP3 | \$161.00 | PDF | Metal plunger with metal roller | (1) N.O./(1) N.C. |  |  |  |  |
| F25BTP3 | \$204.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  |  |
| Wobble Head |  |  |  |  |  |  |  |  |
| F25AW2 | \$143.00 | PDF | 360 degree nylon rod | (1) N.O./(1) N.C. | $10^{\circ}$ | $15^{\circ}$ | $\begin{gathered} 2 \mathrm{lb} \cdot \mathrm{in} \\ {[1.23 \mathrm{~N} \cdot \mathrm{~m}]} \end{gathered}$ |  |
| F25BW2 | \$209.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  | G |
| F25AW3 | \$143.00 | PDF | 360 degree stainless steel rod | (1) N.O./(1) N.C. |  |  |  | H |
| F25BW3 | \$209.00 | PDF |  | (2) N.O./(2) N.C. |  |  |  | H |
| F25AW4 | \$146.00 | PDF | 360 degree stainless steel spring | (1) N.O./(1) N.C. |  |  |  |  |
| F25BW4 | \$209.00 | PDF |  | (2) N.O./(2) N.C.. |  |  |  |  |



## Eaton NEMA Limit Switches <br> Specifications

F25 Series NEMA Limit Switches Specifications

| Environmental |  |
| :---: | :---: |
| Degree of Protection | NEMA 3, 3S, 4, 4X, 6, 6P, 13 IP67 |
| Temperature Range | Side Rotary $10^{\circ} \mathrm{F}\left[-12^{\circ} \mathrm{C}\right]$ to $200^{\circ} \mathrm{F}\left[94^{\circ} \mathrm{C}\right]$ Side Push $14^{\circ} \mathrm{F}\left[-10^{\circ} \mathrm{C}\right]$ to $200^{\circ} \mathrm{F}\left[94^{\circ} \mathrm{C}\right]$ Wobble $14^{\circ} \mathrm{F}\left[-10^{\circ} \mathrm{C}\right]$ to $250^{\circ} \mathrm{F}\left[121^{\circ} \mathrm{C}\right]$ |
| Mechanical Ratings |  |
| Repeat Accuracy | Side Operated: Within 0.0012 in. [ 0.0305 mm ] Side Push: Within 0.003 in. [0.076 mm] Top Push: Within 0.002 in. [ 0.051 mm ] |
| Mechanical Life | Side Rotary: 13 million operations minimum Side and Top Push: 10 million operations minimum Wobble: 10 million operations minimum |
| Conduit Entrance | $1 / 2$ in NPT |
| Enclosure Material | Die-cast zinc alloy |
| Contact Blocks Rating |  |
| Contact Rating | NEMA A600 R300 |
| Electrical Ratings AC <br>  DC <br> Maximum Switching Frequency  | Make: 60 A at $120 \mathrm{VAC} ; 30 \mathrm{~A}$ at $240 \mathrm{VAC} ; 15 \mathrm{~A}$ at $480 \mathrm{VAC} ; 12 \mathrm{~A}$ at 600 VAC Break: 6 A at $120 \mathrm{VAC} ; 3 \mathrm{~A}$ at $240 \mathrm{VAC} ; 1.5 \mathrm{~A}$ at $480 \mathrm{VAC} ; 1.2 \mathrm{~A}$ at 600 VAC Continuous: 10A at 480VAC |
|  | Make: 0.25 A at 120VDC; 0.125 A at 240VDC |
|  | 8000 operations per hour |
| Electrical Life | Single Pole: 1,000,000 operations typical at full load Double Pole: 100,000 operations typical at full load |
| Wiring Connections | AWG \#12 through \#18 AWG Wire |
| Torque Requirements | Switch Body Screws 25-30 in-lb [2.8-3.4 N•m] Operating Head Screws $14-18$ in-lb [1.6-2.0 N•m] |
| Agency Approvals * | cULus 170645 all versions <br> F25Ax versions have CE, All units are Reach compliant |

*To obtain the most current agency approval information, see the Agency Compliance \& Certifications Checklist section on the specific part number's web page.

## Connection Diagram

Connection diagram - SPDT, DPDT
The following connection diagram appears on the switch body nameplate.


