

LIMIT SWITCHES



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DESCRIPTION

Limit switch Assemblies are used in a variety of applications and environments on account of their ruggedness, ease of installation and long term reliability. They can determine the positioning and end of travel etc. of an Actuator/Control valve/Power cylinder. They were first used to define the limit of travel of an object; hence the name "Limit Switch Assembly". The back lever extended from the shaft of the Limit switch Assembly has to be coupled with the moving stem of the valve/actuator to monitor the Position. The position of the running system shall be determined by the CAM setting/sensing plate. The end limits are pre-set at user's place depending on the system/plant requirement. The contacts of the Limit switches are terminated to multi terminal blocks or suitable customized connectors.

SALIENT FEATURES

- Micro switches used are capable of handling high/Low current outputs.
- Highly rugged, reliable, user friendly and easy to install.
- Wide operating temperature range.
- Any type of cable entry could be provided.
- Minimal effect of ambient temperature variance on performance.
- Compact in size as compared to other Limit switch assemblies available in the market.
- High Isolation and Dielectric strength.
- Die-cast AL enclosure capable of enduring high hydrostatic pressure.
- Enclosure protection as per IS/IEC 60529 Standard for IP67.
- Flame/Explosion proof models are available.
- Microcontroller based Limit switches, "SMART Limit Switches" for special applications.
- One year replacement warranty on manufacturing defects.



APPLICATION

- All application, where the end limit of a running system needs to be monitored.
- Process automation environment.



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Redefining Mechatronics Globally.



Salient Features

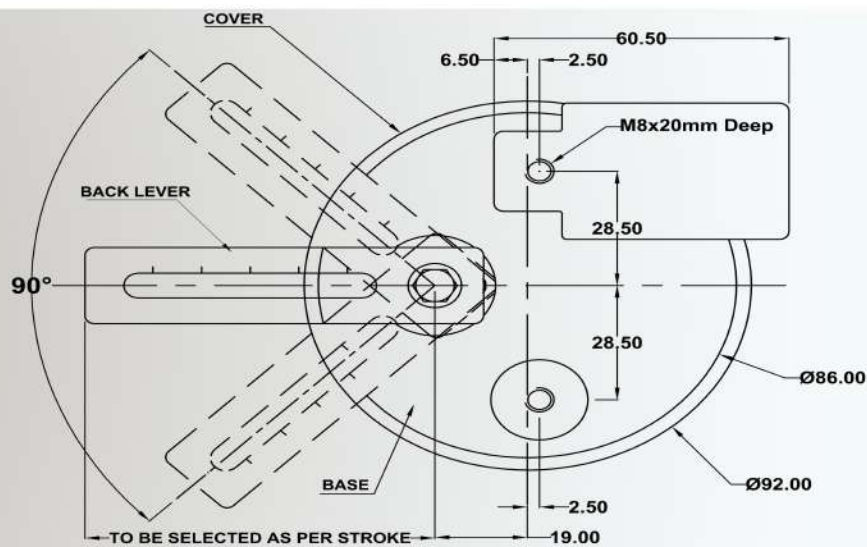
Qualified against harsh environmental tests such as Gamma Radiation Ageing at 2.5Mrad, Thermal Ageing Test at 85°C for 204days and various other type tests.

Complies with IP-67 requirements as per IS/IEC 60529 standard



Specification

| SL NO | CHARACTERISTICS | SPECIFIED VALUE |
|-------|-------------------------------|---|
| 1 | No. of Micro Switches Used | 08 Nos. |
| 2 | Micro Switch Specs & Make | SPDT (1NO+1NC), HIGH TEMPERATURE GRADE, HONEYWELL MAKE. |
| 3 | No. of position can be set. | 08 Nos. |
| 4 | Switch Rating | 0.5 A at 125 Vdc, 0.25A at 250 Vdc, 10A at 125 Vac/250Vac. |
| 5 | Isolation at 500 VDC | >500MΩ between chassis and the shorted wires of Micro Switches. |
| 6 | Di- Electric Strength | 1.5 k V RMS for 1 minute between chassis and shorted wires of Micro Switches. |
| 7 | Cable Entry | IN/OUT connections through 24 pin box mounting receptacle reverse bayonet male & female [90° angle type] connector. |
| 8 | Environmental & Dynamic tests | Qualified Gama radiation at 2.5M rad. Thermal ageing test at 85°C for 204 days. MSLB test qualified Seismic test qualified. |
| 9 | Built In Protection Enclosure | Withstands Hydrostatic Pressure up to 10kg/cms ² for 1 Minute. |
| 10 | Enclosure & Finish | Aluminium LM 6 Gravity Die Cast, Enamel Painted and Oven Baked. |
| 11 | Enclosure Protection | Complies with Ingress Protection Requirements of IP67 as per (Safety & Sealing) IS/ IEC 60529 standard. |
| 12 | Size | Ø92mmx120mm (H). |
| 13 | Weight | ≤ 1.2kg. |



Mounting Details

