



BUILT IN RELIABILITY

















Company Profile

PNEUCON AUTOMATION is an associate company of Pneucon Valves Pvt Ltd who are pioneer in Design, Development and Manufacture of complete range of Control Valves. Pneucon Automation is promoted to manufacture complete range of AUTOMATED ON-OFF VALVES to meet the diverse automation demands of the modern process industries.

DESIGN AND ENGINEERING

Pneucon Engineering department's mission is design innovation. Our ability, experience and expertise through the use of sophisticated technology and CAD/CAE equipment results in the production of high quality automated valves for wide range of applications.

QUALITY

Pneucon limit switch enclosures are produced in strict compliance with the Quality Management System requirements and in conformance with the engineering codes in practice and relevant standards.

MANUFACTURING

Pneucon manufacturing unit is equipped with latest machineries, equipments and test facilities. Our production team of skilled workers ensure to employ latest state-of-theart modern techniques in the entire cycle of production

under stringent quality control procedures. The valves and components are manufactured to the highest degree of accuracy to ensure a trouble free long life and guaranteed interchangeability of spares.

CUSTOMER SERVICE

Pneucon has fully integrated customer service division, which is fully geared to react speedily to all customers enquiries and whatever technical support needed.





Weatherproof Valve Position Limit Switch Enclosure

The LSWP-Weatherproof Limit Switch enclosure offers a wide range of signaling options in a compact corrosion resistant aluminum alloy housing. The Limit Switch indicator, represent a true indication of valve position. It is infinitively adjustable & delivers a 100% change of indication, displaying 90° of rotation by utilizing an amplified mechanical drive.

Integrated Characteristics / Features:

- Enclosure IP67 degree of protection as per IS/IEC-60529/2001 Certified by CMRI Dhanbad Certificate No.: CIMFR/TC/P/H387.
- Intrinsically Safe Exib II B/II C T6 Certified by CMRI Dhanbad as per guidelines of Clause 12 of IS/IEC 60679-11:2006 & Clause 29 of IS/IEC 60079-0:2004 Certificate No.: CIMFR/TC/P/H388.
- Rigid & compact design body constructed from Aluminum Alloy Die Casting capable of operating even in arduous conditions
- Dome position Indicator constructed from high import resistance poly carbonate material which offers instant visual recognition.
- The locked serrated easy to adjust, spring loaded cam ensures easy setting with tool.
- · Three cable entries are provided as a Standard.
- · Complies with NAMUR Mounting Standard.
- Range of mounting accessories having the compatibility with the various Actuators available.
- Temperature range -20°C +80°C, other range available on request.







Flameproof Valve Position Limit Switch Enclosure

The LSFP-Flameproof Limit Switch enclosure offers a wide range of signaling options in a compact corrosion resistant aluminum alloy housing. The Limit Switch indicator, represent a true indication of valve position. It is infinitively adjustable & delivers a 100% change of indication, displaying 90° of rotation by utilizing an amplified mechanical drive.

Integrated Characteristics / Features:

 Enclosure - IP67 degree of protection as per IS/IEC-60529/2001 & Zone 1 & 2 and Gas Group: II C as per IS/IEC 60079-1:2007 Certificate No.: CIMFR/TC/P/1491.



- Rigid & compact design body constructed from Aluminum Alloy Die Casting capable of operating even in arduous conditions.
- Dome position Indicator constructed from high import resistance poly carbonate material which offers instant visual recognition.
- The locked serrated easy to adjust, spring loaded cam ensures easy setting with tool.
- · Two cable entries are provided as a Standard.
- · Complies with NAMUR Mounting Standard.
- Range of mounting accessories having the compatibility with the various Actuators available.
- Temperature range -20°C +80°C, other range available on request.











Mounting

- · As per ISO 5211
- Two different designs available
 Fix bracket | Adjustable bracket
- All bracket are available in MS powder coated for general purpose and SS316 graded material for high corrosion resistance.
- Bracket with special slot for easy adjustments along X & Y axis for perfect alignment.





Internals

The locked serrated easy to adjust, spring loaded CAM ensures easy setting with tool.

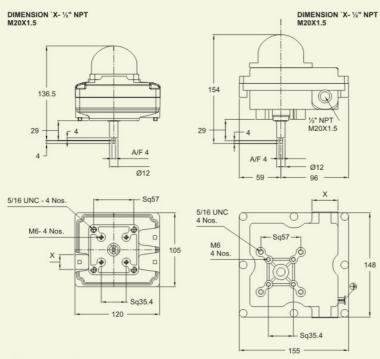


Dome

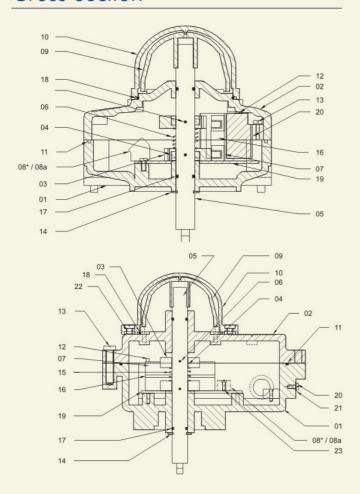
The Dome is manufactured with unique double die process. Black & Red parts are inserted in transparent and Yellow part simultaneously which ensures long life and high visibility.



Dimensions



Cross Section



MATERIAL OF CONSTRUCTION

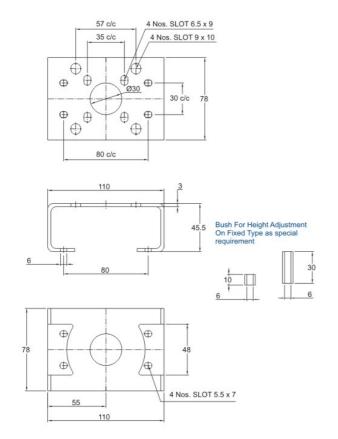
| | | All controls in the control of the c |
|-----|-----------------------------|--|
| 01 | HOUSING | ALUMINIUM ALLOY HE-30 |
| 02 | COVER | ALUMINIUM ALLOY HE-30 |
| 03 | CAM | DELRIN |
| 04 | CAM-LOCK | DELRIN |
| 05 | SHAFT | STAINLESS STEEL |
| 06 | SPRING DOWEL | SPRING STEEL |
| 07 | MICROSWITCH (SPDT) | HONEYWELL/CHERRY/P&F |
| 08* | THREE WAY TERMINAL BLOCK | POLYAMIDE |
| 08a | CONNECTOR STRIP 6 WAY | POLYAMIDE |
| 09 | INDICATOR | ABS PLASTIC |
| 10 | INDICATOR COVER | POLYCARBONATE |
| 11 | GASKET | NBR |
| 12 | SCREW FOR MICROSWITCH | STAINLESS STEEL |
| 13 | NON FALLING SCREW | STAINLESS STEEL |
| 14 | 'E' TYPE CIRCLIP | SPRING STEEL |
| 15 | SPRING | SPRING STEEL |
| 16 | PAD | POLYAMIDE |
| 17 | SHAFT 'O' RING | NBR |
| 18 | INDICATOR 'O' RING | NBR |
| 19* | PRINTED CIRCUIT BOARD | - |
| 20 | HEAD SCREW FOR EARTHING | STAINLESS STEEL |
| 21 | WASHER FOR HEAD SCREW | STAINLESS STEEL |
| 22 | PHILPS HEAD SCREW | STAINLESS STEEL |
| 23 | SCREW FOR CONN. STRIP | STAINLESS STEEL |
| | | |

Note: Above marked with * is applicable for Limit Switch with PCB Card design

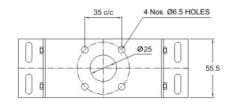


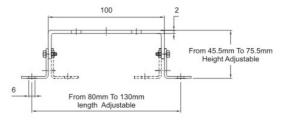
Bracket Dimensions

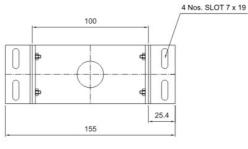
Fixed Type*



Adjustable Type







Ordering Information

| Limit Switch | | Weatherproof Flameproof Intrisically Safe | LSWP LSFP LSIS |
|---------------------|---|---|----------------------|
| Design | | W/O PCB with PCB | 1* 2 |
| Switch Selection | | Ref. Switch Selection Chart | • |
| No of Switches | | | 1 2* 3 4 |
| Cable Entry | | ½" NPT(F) M20X1.5(F) | A* B |
| Bracket MOC | 1 | Mild Steel Stainless Steel | MS* SS |
| Type of Bracket | | Fixed Type Adjustable | F* A |

Note: Above marked with * is default for Limit Switch if not specified.

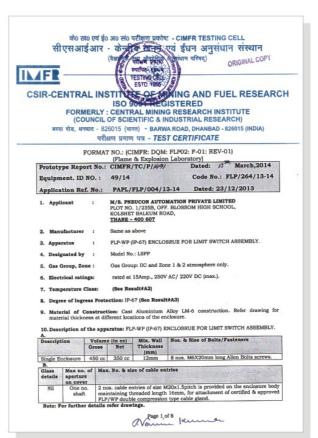
Switch Selection Chart

| Make | Switch Model | Rating | Туре | Code |
|----------|--------------------|--|--------|------|
| HONYWELL | V15S05-CZ100A05-01 | 5Amp 125 OR 250VAC 0.1Amp 48V DC, NO / NC | | 01* |
| HONYWELL | V7-1C17E9-201 | 15Amp 125 OR 250VAC 0.5Amp 125V DC, 0.25Amp 250V DC, NO / NC | | 02 |
| P&F | NJ2-12-GM-N | 8V DC, NC | EEx ia | 03 |
| P&F | NCB2-12GM35-NO | 8V DC, NC | EEx ia | 04 |
| P&F | NBN4-12GM40-ZO | 24V, 100mA,NO | | 05 |
| P&F | NBN4-12GM35-NO | 8V DC, NC | EEx ia | 06 |
| P&F | NJ4-12GM50-WS | 220AC, 200mA 50Hz, 60Hz, NO | | 07 |
| P&F | NJ5-18GM-N | 8V DC, NC | EEx ia | 08 |
| P&F | NBB5-18GM50-ZO | 24V DC, 100mA, NO | | 09 |
| P&F | NJ4-12GK-N | 8V DC, NC | EEx ia | 10 |
| P&F | NJ2-V3-N | 8V DC, 3mA, NC | EEx ia | 11 |
| P&F | NBB3-V3-Z4 | 10-60V DC, 100mA, NO | | 12 |
| P&F | SJ3.5-N | 8V DC, NC | EEx ia | 13 |

Ordering Example: LSWP-1-01-2-A-MS-F
Weatherproof Limit Switch Enclosure without PCB Card is provided, with
Honeywell Micro Switches 2 Nos., each 1 No & 1NC, use 5Amp max.
½" NPT(F) Cable Entry, with a Milled Steel Fixed Type Bracket.

Certificates







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