## herge



## Pressure \& Vacuum Switches

Herga Electric Limited is an independent UK manufacturer of switching systems. In addition to pressure and vacuum switches, we offer other innovative switching solutions:-

| hergair | Airswitching systems |
| :--- | :--- |
| herga | Footswitches |
| hergalite | Fibre Optics / Infra red safety products |
| herga | Hand controls |

Our expertise spans the automotive, medical, packaging, domestic appliance and spa industries.

Herga is driven to respond rapidly to delight our customers. Herga seeks to develop its relations with customers to achieve their business goals.

## Global Presence

Our distributor network covering the worlds major markets enables technical help and assistance to be just a phone call away.

## Continuous Improvement

Herga's approval to ISO 9002 ensures that we are fully in control of our quality. However, this is just the starting point for an aspiring World Class company. We encourage training and development and continuous improvements at individual, team and company level.

## How can we help you?

This brochure provides a brief overview of our product range. If you require further information, please contact us at our e-mail address:
herga.electric@dial.pipex.com
Herga's customers worldwide include

## BMW/Rover Electrolux Jacuzzi <br> RS Components Siemens General Electric

## 6702 High Pressure Switch

High pressure switch all plastic construction. Ranges 1.4-13.8 Bar (20-200 PSI).
Two (2) Pole Electrical Switching.

## 6773 Double Diaphragm Pressure Switch

Double diaphragm construction to meet double insulation requirements of EN 60335-2-60. Water presence detection.


## 6761 and 6763 Low Air Pressure Vacuum Switches

Printed circuit board mounted, pressure/vacuum switches. UL versions available. Range from (0.015 Bar - 1.0 Bar Pressure) (-0.015 Bar - 0.670 Bar Vacuum).

## 6741 and 6742 Medium Pressure Switches

Constructed in Nylon 12 material (pressure range 0.1 Bar to 8.2 Bar).
Single or double pole in 8 adjustable switch ranges. UL versions available.

## 6731 and 6732 Low Pressure Switches

Constructed in Nylon 12 material (pressure range ( 0.0037 Bar to 0.137 Bar ). Single or double pole in 3 adjustable switch ranges. UL versions available.

## 6753 Low Air Pressure/Vacuum Switches

Small versatile compact differential switch with low contact inertia for rapid switching (range 2.5 mbar to 40 mbar ).

## 6721 and 6722 Vacuum Switches

Constructed in Nylon 12 material (vacuum range -0.0075 Bar to -0.670 Bar).
Single or double pole in 5 adjustable switch ranges. UL versions available.

## Pressure Conversion Chart

For more commonly used measurements, including flow, liquid, force and weight equivalents.

## Certification Markings

Covers most worldwide authorities/certification marks.

## Accessories / Switch Housings

Air and electrical connections are available for all pressure and vacuum switches. Please also refer to Airswitching section or contact herga for details.

## Fax Back Sheet

For your fast quotation service.



## Benefits

High pressure switch, all plastic construction (glass loaded nylon)

Alternate diaphragm and connectors available for volume orders


## 6702 Pressure Switch

The industrial pressure switch is moulded entirely in plastic with the exception of the pressure connection and is water, oil and dust proof to IP65. The switches have excellent repeat accuracy, even over widely varying ambient conditions.

The operating pressure is adjustable externally using the thumb screw on the top and the approximate pressure setting can be seen through a window in the cover. To discourage unauthorised tampering, the adjusting screw can be locked in position with an M1.5mm Allen screw.

The microswitches have independent vernier adjustment and are normally set to operate within 2 PSI on rising pressure. Where two pressure levels are to be controlled, the switches can be adjusted separately so that one switch will operate at up to $80 \%$ of the level of the second. The switches can also be set to operate simultaneously on falling pressure instead of rising pressure.

The pressure switch is of Class II construction with double insulation.
For quantity orders, many special options are available, please enquire:-

* Single or double pole switching set to specific pressure levels
* Alternative connector sizes
\% Alternative diaphragms and metal chambers to resist particular fluids
* Installation and setting instructions are supplied with each product


## Other Information

| Withstand pressure |  |  | 500 PSI (34.5 Bar) |  |
| :---: | :---: | :---: | :---: | :---: |
| Setting accuracy when set by herga |  |  | $\pm 10 \%$ |  |
| Temperature range |  |  | $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |  |
| Diaphragm |  |  | Fabric reinforced Nitrile |  |
| Weight |  |  | 300 g |  |
| Silver Contact Microswitch Data |  |  |  |  |
| Average Life Expectancy | Mechanical | $1.0 \times 10^{6}$ |  |  |
|  | Electrical | $2.0 \times 10^{5} @ 10 \mathrm{~A} 1.0 \times 10^{4} @ 21 \mathrm{~A}$ |  |  |
| Electrical Rating |  | Max. Electrical Load |  |  |
|  | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | $\begin{aligned} & 250 \mathrm{~V} \\ & 250 \mathrm{~V} \\ & 125 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 21 \mathrm{~A} \\ & 21 \mathrm{~A} \\ & 21 \mathrm{~A} \end{aligned}$ | 8A | $\begin{aligned} & 1 \mathrm{HP} \\ & 2 \mathrm{HP} \end{aligned}$ |
| DC | 6 V <br> 12V <br> 24 V <br> 60 V <br> 110 V <br> 220 V | $\begin{array}{r} 21 \mathrm{~A} \\ 15 \mathrm{~A} \\ 8 \mathrm{~A} \\ 1 \mathrm{~A} \\ 0.5 \mathrm{~A} \\ 0.25 \mathrm{~A} \end{array}$ | $\begin{array}{r} 21 \mathrm{~A} \\ 15 \mathrm{~A} \\ 7 \mathrm{~A} \\ 0.5 \mathrm{~A} \\ 0.2 \mathrm{~A} \\ 0.1 \mathrm{~A} \end{array}$ |  |

Gold Contact Microswitch Data

| Average Life Expectancy | Mechanical | $1.0 \times 1.0^{6}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Electrical | $2.0 \times 10^{5} @ 10 \mathrm{~A} 1.0 \times 10^{4} @ 21 \mathrm{~A}$ |  |  |
| Electrical Rating |  | Max. Electrical Load |  |  |
|  | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | 250 V | 0.1A | 0.05 | N/A |
| UL/CSA Only | 125 V | 0.1A | ---- | --- |

Switch Standards: EN 60730, EN 61058 and UL 508
Approvals Available: $\quad$ CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, OVE, SEMCO, SET I, SEV, UL, VDE


Note: differentials are approximate
Suitability for use with different operating media

## Pressure Medium

## Acetone $\quad \square$

Ammonia (Liquid)
Amyl Alcohol to $20^{\circ} \mathrm{C}$
Automotive Brake Fluid
Beer
Butane
Carbon Dioxide (Dry)
Citric Acid
Copper Sulphate (Sol.)
Compressed Ai
Cutting Oil
Diesel Oil
Detergent Solution
Fuel Oil
Glycol
Hydraulic Oil
Hydrogen
Lubricating Oil
Milk
Mineral Oil
Natural Gas
Oxygen to $70^{\circ} \mathrm{C}$
Petrol
Plating Solution (Chrome)
Salt Water
Sewage
Turpentine
Vinegar
Water
$\checkmark=$ Recommended $\quad \checkmark=$ Suitable with modifications

Note: Dry Switching - if switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga or refer to gold contact in section 4 of the opposite page.

Herga do not accept liability for any pressure operated device used outside the pressure range specified by the company.


## Benefits

Specified to EN 60335-2-60 double insulated for water detection
Various microswitch options

[^0]1. Model Number
2. Pressure Range

A $250 \mathrm{~mm} \mathrm{H}_{2} \mathrm{O}$ to $760 \mathrm{~mm} \mathrm{H}_{2} \mathrm{O}$ Standard
3. Caps

A Side Entry Std Spout Std Orientation 4.0 mm Spout
B Side Entry Std Spout Rotated $90^{\circ}$ Viewed From Cap $4.0 \mathrm{~mm} \varnothing$ Spout
C Side Entry Std Spout Rotated $180^{\circ}$ Viewed From Cap 4.0mmø Spout
D Side Entry Std Spout Rotated $270^{\circ}$ Viewed From Cap 4.0 mm Ø Spout
E Side Entry Long Spout 4.0 mm O Std Orientation
F Side Entry Long Spout Rotated $90^{\circ}$ Viewed From Cap 4.0 mm O Spout
G Side Entry Long Spout Rotated $180^{\circ}$ Viewed From Cap $4.0 \mathrm{~mm} \varnothing$ Spout
H Back Entry Short Thread 4.0 mm O Spout. Not suitable for 'O' ring
J Back Entry Long Thread 4.0mmø Spout
K Back Entry Long Thread 2.0 mm Ø Spout
L Long Thread Spout Rotated @ $90^{\circ} 4.0 \mathrm{~mm} \varnothing$ Spout
4. Bleed

A No Bleed Cap
J With Bleed Cap
5. Nut Specification

A Black Moulded Nut
B Black Moulded Nut and 'O' Ring (only available with options 3J, $K \& L$ above)
6. Authority

A European Tag Configuration
7. Terminal Combinations

A 3 Blade QC $6.3 \mathrm{~mm} \times 0.8 \mathrm{~mm}$
B 2 Blade QC $6.3 \mathrm{~mm} \times 0.8 \mathrm{~mm}$ Normally Open Contacts
C 2 Blade QC $6.3 \mathrm{~mm} \times 0.9 \mathrm{~mm} 90^{\circ}$ Crank Normally Open Contacts
8. Microswitch Rating

A $0.1 \mathrm{~A} 125 / 250 \mathrm{~V}$ ac Gold Contacts (not available with option 7c)
B $10 \mathrm{~A} 1 / 4 \mathrm{HP} 125 / 250 \mathrm{~V}$ ac
C 21 A 250 V ac 1 HP 125 V ac 2 HP 250 V ac


## 6761 \& 6763 ~ Low Air Pressure Vacuum Switches (slow make contacts)



## Benefits

* A range of small switches designed for direct mounting onto printed circuit boards
* UL versions available
\% Various spout orientations available
* Double diaphragm versions available upon request
* Available with base or side tube entry
* Silver or gold contact options
* Switches can be factory set within specified tolerances
* 'O' ring seals available for dust and water tight applications, back entry versions only

Printed Circuit Board Mounting Switches

## Model No

Pressure/Vacuum range

Maximum Differential
Pressure/Vacuum Range
Body Withstand Pressure
Air Bleed Version
Flow Rate Litre / Min (with air bleed)
Pressure Connection

Connecting Tube Reference

Temperature Range

## Electrical Data

## Switch

Contact Rating Maximum
UL

## 6761 (Vacuum)

150 mm ( 6 ins) Wg
670 millibar (9.8) PSI
Approximately 0.06 ins WG
Adjustable variants
2.7 Bar (40) PSI

Available upon request
8 - $30 \mathrm{cc} / \mathrm{Min} @ 31 \mathrm{ins}$ WG
$4 \mathrm{~mm} \varnothing$ spout for side and back entry
$2 \mathrm{~mm} \varnothing$ spout for back entry only
Lower spout ' $V$ ' vacuum
4 mm spout $=2311-01$ or 2311-08
2 mm spout $=2311-03$
$-10^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ (Flow Solder $220^{\circ} \mathrm{C}$ for 5 Sec )

Single Pole Normally Open
0.5 A RES 250 V ac (Silver contacts)

50 mA RES 250 V ac
(Maximum ratings may not be achieved at low pressure settings)
10 mA 24 V dc (UL)
Glass filled polyester
Silicone as standard
Silver or gold plated copper pins
$1 \times 10^{6}$ cycles
8 grms

## 6763 (Pressure)

150 mm ( 6 ins) Wg
1.0 Bar (14.7) PSI

Approximately 0.06 ins WG
Adjustable variants
2.7 Bar (40) PSI

Available upon request
8 - 30cc/Min @ 31 ins WG
$4 \mathrm{~mm} \varnothing$ spout for side and back entry
$2 \mathrm{~mm} \varnothing$ spout for back entry only
Upper spout 'P' pressure
4 mm spout $=2311-01$ or 2311-08
2 mm spout $=2311-03$
$-10^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ (Flow Solder $220^{\circ} \mathrm{C}$ for 5 Sec )

Single Pole Normally Open
0.5A RES 250V ac (Silver Contacts)

50 mA RES 250 V ac

10 mA 24 V dc (UL)
Glass filled polyester
Silicone as standard
Silver or gold plated copper pins
$1 \times 10^{6}$ cycles
8 grms

## 6761/6763 Vacuum and Pressure Switch Range

A miniature, compact low pressure switch designed for direct fitting by solder pins to printed circuit boards. Both vacuum and pressure ports are provided making the unit ideal for differential switching. Typical applications are indicators, emergency cut-out and alarms, filter and low pressure/vacuum monitoring. The switch is made to order for specific applications, the actual operating pressures or vacuum being set during production. However, final adjustment may be made after installation by the slotted screw in the base. The body construction allows the two ports to be set at any angle to each other.



## Benefits

* Switches set to specific rising or falling pressures
* UL recognised versions available
* High performance repeatability

Silver Contact Microswitch Data

| Average Life Expectancy | Mechanical | $1.0 \times 10^{6}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Electrical | $2.0 \times 10^{5} @ 10 \mathrm{~A} 1.0 \times 10^{4} @ 21 \mathrm{~A}$ |  |  |
| Electrical Rating |  | Max. Electrical Load |  |  |
|  | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | $\begin{aligned} & 250 \mathrm{~V} \\ & 250 \mathrm{~V} \\ & 125 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 21 \mathrm{~A} \\ & 21 \mathrm{~A} \\ & 21 \mathrm{~A} \end{aligned}$ | 8A | $\begin{aligned} & 1 \mathrm{HP} \\ & 1 \mathrm{HP} \end{aligned}$ |
| DC | 6 V <br> 12V <br> 24 V <br> 60V <br> 110 V <br> 220 V | $\begin{array}{r} 21 \mathrm{~A} \\ 15 \mathrm{~A} \\ 8 \mathrm{~A} \\ 1 \mathrm{~A} \\ 0.5 \mathrm{~A} \\ 0.25 \mathrm{~A} \end{array}$ | $\begin{array}{r} 21 \mathrm{~A} \\ 15 \mathrm{~A} \\ 7 \mathrm{~A} \\ 0.5 \mathrm{~A} \\ 0.1 \mathrm{~A} \\ 0.1 \mathrm{~A} \end{array}$ |  |

Gold Contact Microswitch Data

| Average Life Expectancy | Mechanical | $1.0 \times 10^{6}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Electrical | $2.0 \times 10^{6} @ 10 \mathrm{~A} 1.0 \times 10^{4} @ 21 \mathrm{~A}$ |  |  |
| Electrical Rating |  | Max. Electrical Load |  |  |
|  | Voltage | Res. | Ind. | (Pf 0.75 Motor) |
| AC | 250 V | 0.1A | 0.05 | N/A |
| UL/CSA Only | 125 V | 0.1A | ----- | ---- |

Switch Standards: EN 60730, EN 61058 and UL 508
Approvals Available: CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, OVE, SEMCO, SET I, SEV, UL, VDE

## NB

Herga do not accept liability for any pressure operated device used outside the pressure range specified by the company.

| Model No | 6742-20/30/40/50/60 | 6742-70/80/90 |
| :---: | :---: | :---: |
| Electrical Switch Data | 2 Pole change over | 2 Pole Change over |
| Contact Rating | 21 (8) A 250V ac | 21 (8) A 250V ac |
| Pressure Connection | Brass $1 / 8$ " BSPT | Brass $1 / 8{ }^{\prime \prime}$ BSPT |
| Setting Accuracy | $\pm 10 \%$ as standard | $\pm 10 \%$ as standard |
| Withstand Pressure | 25 PSI or x 2 | 150 PSI 10 Bar |
| Temperature Range | $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Body Material | Nylon 12 | Nylon 12 |
| Diaphragm | Neoprene | Nitrile fabric reinforced fitted in brass pressure capsule |
| Spring | Spring steel | Spring steel |
| Weight | 50 gm | 85 gm |


| Model No | Pressure Range |  | Differential |
| :---: | :---: | :---: | :---: |
| $6742-20$ | $1.5-3.5$ | $0.10-0.24$ | See chart 1 |
| $6742-30$ | $3.0-5.5$ | $0.20-0.37$ | See chart 1 |
| $6742-40$ | $5-10$ | $0.34-0.68$ | See chart 1 |
| $6742-50$ | $8-18$ | $0.54-1.22$ | See chart 2 |
| $6742-60$ | $16-30$ | $1.08-2.04$ | See chart 2 |
| $6742-70$ | $25-55$ | $1.70-3.79$ | See chart 3 |
| $6742-80$ | $45-75$ | $3.1-5.17$ | See chart 3 |
| $6742-90$ | $60-120$ | $4.14-8.27$ | See chart 3 |

## Special options are available for quantity orders

* Diaphragms in silicon rubber, nitrile, EPDM
* Switches with wide or close differentials
* Springs in stainless steel
* NPT connectors available


## Suitability for use with different operating media

| Pressure Medium | Diaphragms |  |
| :---: | :---: | :---: |
| Chemical Compatibility | $\begin{gathered} 6742 / 20 / 30 / 40 \\ 50 \& 60 \end{gathered}$ | $\begin{gathered} \text { 6742/70/80 } \\ \& 90 \end{gathered}$ |
| Acetone | $\square$ | $\square$ |
| Ammonia (Liquid) | $\square$ | $\checkmark$ |
| Amyl Alcohol to $20^{\circ} \mathrm{C}$ | $\square$ | $\checkmark$ |
| Automotive Brake Fluid | $\square$ | $\checkmark$ |
| Beer | $\square$ | $\square$ |
| Benzyl Alcohol | $x$ | $\checkmark$ |
| Butane | $\checkmark$ | $\checkmark$ |
| Carbon Dioxide - Dry | $\checkmark$ | $\checkmark$ |
| Citric Acid | $\checkmark$ | $\checkmark$ |
| Copper Sulphate (Sol.) | $\checkmark$ | $\checkmark$ |
| Compressed Air | $\checkmark$ | $\checkmark$ |
| Cutting Oil | $\square$ | $\checkmark$ |
| Diesel Oil | $\square$ | $\checkmark$ |
| Detergent Solution | $\square$ | $\checkmark$ |
| Fuel Oil | $\square$ | $\checkmark$ |
| Glycol | $\checkmark$ | $\checkmark$ |
| Hydraulic Oil | $\checkmark$ | $\checkmark$ |
| Hydrogen | $\checkmark$ | $\checkmark$ |
| Lubricating Oil | $\square$ | $\checkmark$ |
| Milk | $\square$ | $\checkmark$ |
| Mineral Oil | $\square$ | $\checkmark$ |
| Natural Gas | $\checkmark$ | $\checkmark$ |
| Nitric Acid (Dil.) | $x$ | $\square$ |
| Oxygen to $70^{\circ} \mathrm{C}$ | $\checkmark$ | $\checkmark$ |
| Petrol | $\square$ | $\checkmark$ |
| Plating Solution (Chrome) | $\square$ | $\square$ |
| Salt Water | $\square$ | $\checkmark$ |
| Sewage | $\checkmark$ | $\checkmark$ |
| Sulphur Dioxide | $\times$ | $\checkmark$ |
| Turpentine | $\square$ | $\checkmark$ |
| Vinegar | $\square$ | $\checkmark$ |
| Water | $\checkmark$ | $\checkmark$ |

Key: $\quad \checkmark=$ Recommended
$\square=$ Suitable with modification
$x=$ Not suitable

2 mm thick mounting plate Part N ${ }^{\circ}$ 3351-109 for 6742-20 to 6742-60

## Note:

Longer screws will penetrate diaphragm chamber, please order part $\mathrm{N}^{\circ}$ 2112-643-047 Qty 2


Non standard tube connection positions for 4 mm Ø spout connection.

Not recommended for pressure over 20 PSI


Back entry $6.4 \mathrm{~mm} \varnothing$ spout


Back entry $4 \mathrm{~mm} \oslash$ spout
$6742-20$ to $6742-60$ only


5 Fixing holes 4.5 mm deep to suit No. 4 self tap screws on 28.5 PCD


## Benefits

These switches have been designed primarily for the OEM manufacturer who requires low cost and high reliability

UL recognised versions available

* The switches have excellent repeat accuracy
* Double pole switching available upon request
* Wide choice of microswitch options including tab configurations

| Model No | 6731-03 | 6731-06 | 6731-10 |
| :---: | :---: | :---: | :---: |
| Electrical Switch | Single Pole change over | Single Pole change over | Single Pole change over |
| Contact Rating | 3(1)A 250 V ac | 10(3)A 250 V ac | 21 (8)A 250 V ac |
| Pressure Connection | Side entry spout 4mm O/D | Side entry spout 4mm O/D | Side entry spout 4mm O/D |
| Setting Accuracy | $\pm 10 \%$ as std | $\pm 10 \%$ as std | $\pm 10 \%$ as std |
| Withstand Pressure | 25 PSI | 25 PSI | 25 PSI |
| Body Material | Nylon 12 | Nylon 12 | Nylon 12 |
| Diaphragm | Neoprene | Neoprene | Neoprene |
| Spring | Spring steel | Spring steel | Spring steel |
| Weight | 50 gm | 50gm | 50 gm |


| Model No | Pressure Range |  | Differential <br> (Fixed) |
| :---: | :---: | :---: | :---: |
| $6731-03$ | Inches Water | mm Water | (1.7 |
| $6731-06$ | $5-25$ | $127-635$ | See chart 1 |
| $6731-10$ | $20-55$ | $510-1400$ | See chart 1 |

## Special options are available for quantity orders

* Switches set to specific operating pressure, rising or falling
- Diaphragms in silicon rubber, nitrile, EPDM
* Switches with wide or close differentials
* Springs in stainless steel

| Pressure Switches |  | 6731-03 |  | 6731-06 |  |  | 6731-10 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average Life Expectancy | Mechanical <br> Flectrical | $2 \times 10^{6}$ |  | $2 \times 10^{6}$ |  |  | $1.0 \times 10^{6}$ |  |  |
|  |  | $0.2 \times 10^{6}$ @ 1A |  | $0.2 \times 10^{6} @ 6 \mathrm{~A} 50 \mathrm{~K} @ 10 \mathrm{~A}$ |  |  | $0.2 \times 10^{6} @ 10 \mathrm{~A} 10 \mathrm{~K} @ 21 \mathrm{~A}$ |  |  |
| Electrical Rating |  | Max Electrical Load |  | Max Electrical Load |  |  | Max Electrical Load |  |  |
|  | Voltage | Resistive | Inductive | Resistive | Inductive | Motor (Pf0.75) | Resistive | Inductive | Motor (Pf0.75) |
|  | 125 V | 3A | 1A | 10A | 10A | 0.5 HP | 21A | 15A | 1HP |
| AC | 250 V | 3A | 1A | 10A | 10A | 0.5 HP | 21A | 15A | 2 HP |
| DC | 6 V | 3A | 1A | 10A | 10A |  | 21A | 21A |  |
|  | 12 V | 3A | 1A | 5A | 3 A |  | 15A | 15A |  |
|  | 24 V | 1A | 0.5A | 5A | 3A |  | 8A | 7A |  |
|  | 60 V | 1A | 0.5A | 1A | 0.5A |  | 1A | 0.5A |  |
|  | 110 V | 0.5A | 0.2A | 0.5A | 0.2A |  | 0.5A | 0.2A |  |
|  | 220 V | 0.25 | 0.1A | 0.25A | 0.1A |  | 0.25A | 0.1A |  |
| Switch Standards: |  | EN 60730, EN 61058 and UL 508 |  |  |  |  |  |  |  |
| Approvals Available |  | CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, OVE, SEMCO, SET I, SEV, UL, VDE. Approved to BS 3955 part III |  |  |  |  |  |  |  |

Note: Dry Switching
If switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga for special switches.
NB - Herga do not accept liability for any pressure operated device used outside the pressure range specified by the company.

## Suitability for use with different operating media

| Pressure Medium | Diaphragms |
| :---: | :---: |
| Chemical Compatibility | 6731 |
| Acetone | $\checkmark$ |
| Ammonia (Liquid) | $\checkmark$ |
| Amyl Alcohol to $20^{\circ} \mathrm{C}$ | $\checkmark$ |
| Automotive Brake Fluid | $\square$ |
| Beer | $\checkmark$ |
| Benzyl Alcohol | $\times$ |
| Butane | $\checkmark$ |
| Carbon Dioxide - Dry | $\checkmark$ |
| Citric Acid | $\checkmark$ |
| Copper Sulphate (Sol.) | $\checkmark$ |
| Compressed Air | $\checkmark$ |
| Cutting Oil | $\checkmark$ |
| Diesel Oil | $\checkmark$ |
| Detergent Solution | $\checkmark$ |
| Fuel Oil | $\checkmark$ |
| Glycol | $\checkmark$ |
| Hydraulic Oil | $\checkmark$ |
| Hydrogen | $\checkmark$ |
| Lubricating Oil | $\checkmark$ |
| Milk | $\checkmark$ |
| Mineral Oil | $\checkmark$ |
| Natural Gas | $\checkmark$ |
| Nitric Acid (Dil.) | X |
| Oxygen to $70^{\circ} \mathrm{C}$ | $\checkmark$ |
| Petrol | $\checkmark$ |
| Plating Solution (Chrome) | $\checkmark$ |
| Salt Water | $\checkmark$ |
| Sewage | $\checkmark$ |
| Sulphur Dioxide | $x$ |
| Turpentine | $\checkmark$ |
| Vinegar | $\checkmark$ |
| Water | $\checkmark$ |

2mm thick mounting plate Part N ${ }^{\circ}$ 3351-109 for 6731/2 switches

Note:
Longer screws will penetrate diaphragm chamber, please order part $N^{\circ}$ 2112-643-047 Qty 2

Alternative Pressure Connections
Back Entry 1/8" BSPT and NPT Pressure Connectors


Non standard tube connection positions for $4 \mathrm{~mm} \varnothing$ spout connection. Not recommended for pressure over 20 PSI

Key: $\quad \checkmark=$ Recommended
$\square=$ Suitable with modification
$\boldsymbol{X}=$ Not suitable

Chart 1


Note: Differentials are approximate


## Benefits

Sensitive versatile switch - ideal for long tube length applications

Normally open or normally closed contact configuration
Ideal for switching low power circuits


* Bleed versions available for temperature compensation

Easily adjustable settings
Custom pressure, vacuum and bleed settings available upon request

1. Model Number
2. Operation

A Normally Open - Pressure
B Normally Closed-Vacuum
3. Bleed Adjuster Options

A Bleed A side only, Vacuum N/O to N/C, Pressure N/C to N/O
B Bleed B side only, Vacuum N/O to N/C, Pressure N/C to N/O
C Bleed both sides Vacuum / Pressure
D No bleed variant either side Vacuum / Pressure
4. Bleed Setting

A $100-300 \mathrm{cc} /$ Min Factory Setting
J No bleed setting
5. Pressure Setting
$\begin{array}{ll}\text { A } & \text { 2.25" WG } \pm 0.5^{\prime \prime} \\ \text { C } & 3 " W G \pm 0 . "^{\prime \prime}\end{array}$
E 6" WG $\pm 10 \%$
G 10 " $W G \pm 10 \%$
B $2^{\prime \prime}$ WG $\pm 0.5^{\prime \prime}$
F 8 " $W G \pm 10 \%$
J 14 " WG $\pm 10 \%$
H 12" WG $\pm 10 \%$
6. Packaging Options

A Vacuum Form Tray (100 off volumes - ideal for OEM applications)
B Poly Bag (individual)


| Technical Data |  |
| :--- | :--- |
| Pressure/Vacuum range minimum <br> maximum | $25 \mathrm{~mm}(1 \mathrm{in}) \mathrm{Wg}$ <br> $400 \mathrm{~mm}(16 \mathrm{ins}) \mathrm{Wg}$ |
| Maximum Differential | $400 \mathrm{~mm}(16 \mathrm{ins}) \mathrm{Wg}$ |
| Pressure <br> Standard Factory Setting | $50 \mathrm{~mm}(2.25 \mathrm{ins}) \mathrm{Wg}$ <br> (Contacts Normally Open) Other <br> settings available see note $\left.{ }^{2}\right)$ |
| Maximum Differential Between <br> Pressure Connection | 0.34 Bar (5 PSI) |
| Body Withstand Pressure | 1.0 Bar (14.7 PSI) |
| Air Bleed Version | See choice options 3 \& 4, other <br> settings available, see note 3$)$ |
| Flow Rate Litre / Min | Standard $100-300$ cc/Min <br> @ 5 PSI |
| Connection Position | Base see note ${ }^{2)}$ |
| Pressure Connection | $4 m m$ dia spouts <br> For reducing connectors, please <br> refer to accessories page |
| Connecting Tube Reference | $2311-08$ or $2311-01$ |
| Temperature Range | $-5^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ |

## Electrical Data

| Switch | Single pole, N/Open / N/Closed <br> $0.5 A$ RES 250V ac |
| :--- | :--- |
| Contact Rating Maximum | (Maximum ratings may not be <br> achieved at low pressure <br> settings) |
| Dry Switching Minimum Current | 5 mA 4 V dc |
| Body | Glass filled nylon 12 |
| Diaphragm | Neoprene |
| Contacts | Gold plated silver mounted on <br> phosphor-bronze blades |
| Contact Resistance | 0.05 Ohms |
| Mechanical Life | $1 \times 10^{6}$ cycles |
| Weight (grams) | 10 grms |

## 6753 Pressure Switch Range

## For very sensitive pressure, vacuum and differential pressure switching.

The 6753 range of switches provide a high specification in a small, versatile body shell. Great care has been taken in the switch unit design, keeping the moving mass and therefore inertia to a minimum. This means that it can operate at a high cycle rate with low pressure, vacuum or pressure differential. This design feature can be used when measuring pressure pulses such as on component counting applications and used with herga Safe Edges. The switch will operate very rapidly keeping the switch delay to a minimum.

1) For good repeatable switching, the contacts are gold plated on solid silver. The electrical rating of the switch is dependent on the contact pressure. This pressure is dependent on the air pressure. Thus, for very sensitive setting the permissible switching current will be lower than normal.
2) The standard switch can be adjusted to give normally closed or normally open contacts depending on the application. For operation on pressure with normally closed contacts, connect to air connection 'A' and screw in sensitivity adjusting screw ' S ' until contacts are normally closed. For operation on pressure with normally open contacts, connect to air connection ' $B$ ' and set with contacts normally open.
3) A separate version, (see bleed options), is provided with adjustable air bleeds on both sides of the diaphragm. These air bleeds are adjusted to a level which is suitable for most applications involving safe edges or elbows, and prevent pressure or vacuum building up inside when the ambient temperature or atmospheric pressure changes.


5 Fixing holes 4.5 mm deep to suit No. 4 self tap screws on 28.5 PCD


## Benefits

* The switches have excellent repeat accuracy

Double pole switching available upon request

* Wide choice of microswitch options available including tab configurations

| Model No | 6721-03 | 6721-06 | 6721-20/30/40 |
| :---: | :---: | :---: | :---: |
| Electrical Switch Data | Single Pole change over | Single Pole change over | Single Pole change over |
| Contact Rating | 3 (1)A 250 V ac | 10(3)A 250 V ac | 21(8)A 250V ac |
| Vacuum Connection | Side entry spout 4mm O/D | Side entry spout 4mm O/D | Side entry spout 4mm O/D |
| Setting Accurac | $\pm 10 \%$ std | $\pm 10 \%$ std | $\pm 10 \%$ std |
| Temperature Range | $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Body Material | Nylon | Nylon 12 | Nylon 12 |
| Diaphragm | Neoprene | Neoprene | Neoprene |
| Spring (in Vacuum Cavity) | Spring steel ${ }^{1)}$ | Spring steel 1) | Spring steel 1) |

Note: The spring is fitted in the vacuum cavity in contact with the media

| Model No | Vacuum Range |  | Differential <br> (Fixed) |
| :---: | :---: | ---: | :---: |
| $6721-03$ | Inches Water | mm Water | $75-200$ |
| $6721-06$ | $7-15$ | See chart 1 |  |
| $6721-20$ | $13-32-380$ | See chart 1 |  |
| $6721-30$ | $28-80$ | $710-2030$ | See chart 2 |
| $6721-40$ | $75-270$ | $1900-6860$ | See chart 2 |

## Special options are available for quantity orders

: Switches set to specific operating vacuum, rising or falling

* Diaphragms in silicon rubber, nitrile, EPDM
* Switches with wide or close differentials
* Springs in stainless steel

| Pressure Switches |  | 6731-03 |  | 6731-06 |  |  | 6731-10 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average Life Expectancy | Mechanical Electrical | $2 \times 10^{6}$ |  | $2 \times 10^{6}$ |  |  | $1.0 \times 10^{6}$ |  |  |
|  |  | $0.2 \times 10^{6} @ 1 \mathrm{~A}$ |  | $0.2 \times 10^{6} @ 6 \mathrm{~A} 50 \mathrm{~K} @ 10 \mathrm{~A}$ |  |  | $0.2 \times 10^{6} @ 10 \mathrm{~A} 10 \mathrm{~K} @ 21 \mathrm{~A}$ |  |  |
| Electrical Rating |  | Max Electrical Load |  | Max Electrical Load |  |  | Max Electrical Load |  |  |
|  | Voltage | Resistive | Inductive | Resistive | Inductive | Motor (Pf0.75) | Resistive | Inductive | Motor (Pf0.75) |
|  | 125 V | 3A | 1A | 10A | 10A | 0.5 HP | 21A | 15A | 1 HP |
| AC | 250 V | 3A | 1A | 10A | 10A | 0.5 HP | 21A | 15A | 2 HP |
| DC | 6 V | 3A | 1A | 10A | 10A |  | 21A | 21A |  |
|  | 12 V | 3A | 1A | 5A | 3A |  | 15A | 15A |  |
|  | 24 V | 1A | 0.5A | 5A | 3A |  | 8A | 7A |  |
|  | 60 V | 1A | 0.5A | 1A | 0.5A |  | 1A | 0.5A |  |
|  | 110 V | 0.5A | 0.2A | 0.5A | 0.2A |  | 0.5A | 0.2A |  |
|  | 220 V | 0.25A | 0.1A | 0.25A | 0.1A |  | 0.25A | 0.1A |  |
| Switch Standards: |  | EN 60730, EN 61058 and UL 508 |  |  |  |  |  |  |  |
| Approvals Available |  | CE, BEAB, CSA, DEMCO, IMQ, KEMA, NEMCO, OVE, SEMCO, SET I, SEV, UL, VDE. Approved to BS 3955 part III |  |  |  |  |  |  |  |

Note: Dry Switching
If switching low power circuits, low current (4 to 100 milliamperes) and low voltage (below 30V), consult herga for special switches.
NB - Herga do not accept liability for any vacuum operated device used outside the pressure range specified by the company.

Suitability for use with different operating media

| Vacuum Medium | Diaphragms |
| :---: | :---: |
| Chemical Compatibility | 6721 |
| Acetone | $\checkmark$ |
| Ammonia (Liquid) | $\checkmark$ |
| Amyl Alcohol to $20^{\circ} \mathrm{C}$ | $\square$ |
| Automotive Brake Fluid | $\square$ |
| Beer | $\square$ |
| Benzyl Alcohol | $x$ |
| Butane | $\checkmark$ |
| Carbon Dioxide - Dry | $\checkmark$ |
| Citric Acid | $\checkmark$ |
| Copper Sulphate (Sol.) | $\checkmark$ |
| Compressed Air | $\checkmark$ |
| Cutting Oil | $\checkmark$ |
| Diesel Oil | $\checkmark$ |
| Detergent Solution | $\checkmark$ |
| Fuel Oil | $\checkmark$ |
| Glycol | $\checkmark$ |
| Hydraulic Oil | $\checkmark$ |
| Hydrogen | $\checkmark$ |
| Lubricating Oil | $\checkmark$ |
| Milk | $\square$ |
| Mineral Oil | $\checkmark$ |
| Natural Gas | $\checkmark$ |
| Nitric Acid (Dil.) | $x$ |
| Oxygen to $70^{\circ} \mathrm{C}$ | $\checkmark$ |
| Petrol | $\checkmark$ |
| Plating Solution (Chrome) | $\square$ |
| Salt Water | $\checkmark$ |
| Sewage | $\checkmark$ |
| Sulphur Dioxide | $x$ |
| Turpentine | $\checkmark$ |
| Vinegar | $\checkmark$ |
| Water | $\checkmark$ |

Key:
= Recommended
$\nabla=$ Suitable with modification
$x=$ Not suitable

2 mm thick mounting plate part N ${ }^{\circ}$ 3351-109 For $6721 / 2$ switches

## Note:

Longer screws will penetrate diaphragm chamber, please order part $\mathrm{N}^{\circ}$ 2112-643-047 Qty 2


Non standard tube connection positions for $4 \mathrm{~mm} \varnothing$ spout connection.

## Alternative Vacuum Connections

 Back entry $1 / 8$ " BSPT and NPT ConnectorsBack entry $6.4 \mathrm{~mm} \emptyset$ spout


Note: Differentials are approximate



WG $-225-200 \quad-175-150 \quad-125-100 \quad-75 \quad-80 \quad-25-10-25 \quad-50$


Back entry option available


| P.S.I | in/ $\mathrm{H}_{2} \mathrm{O}$ | in/Hg | $\mathrm{mm} / \mathrm{H}_{2} \mathrm{O}$ | $\mathrm{mm} / \mathrm{Hg}$ | kg/cm ${ }^{2}$ | bar | mbar | Pa | kPa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.0 | 27.71 | 2.036 | 703.1 | 51.75 | . 0703 | . 0689 | 68.95 | 6895 | 6.895 |
| 1.1 | 30.45 | 2.240 | 773.4 | 56.89 | . 0773 | . 0758 | 75.84 | 7584 | 7.584 |
| 1.2 | 33.22 | 2.443 | 843.7 | 62.06 | . 0844 | . 0827 | 82.74 | 8274 | 8.274 |
| 1.3 | 35.98 | 2.647 | 914.0 | 67.23 | . 0914 | . 0896 | 89.63 | 8963 | 8.963 |
| 1.4 | 38.75 | 2.850 | 984.3 | 72.40 | . 0984 | . 0965 | 96.52 | 9652 | 9.652 |
| 1.5 | 41.52 | 3.054 | 1055 | 77.57 | . 1055 | . 1034 | 103.4 | 10340 | 10.34 |
| 1.6 | 44.29 | 3.258 | 1125 | 82.74 | . 1125 | 1103 | 110.3 | 11030 | 11.03 |
| 1.7 | 47.06 | 3.461 | 1195 | 87.92 | . 1195 | . 1172 | 117.2 | 11720 | 11.72 |
| 1.8 | 49.82 | 3.665 | 1266 | 93.09 | . 1266 | 1241 | 124.1 | 12410 | 12.41 |
| 1.9 | 52.59 | 3.868 | 1336 | 98.26 | . 1336 | 1310 | 131.0 | 13100 | 13.10 |
| 2.0 | 55.36 | 4.072 | 1406 | 103.4 | . 1406 | . 1379 | 137.9 | 13790 | 13.79 |
| 2.1 | 58.13 | 4.276 | 1476 | 108.6 | . 1476 | . 1448 | 144.8 | 14480 | 14.48 |
| 2.2 | 60.90 | 4.479 | 1547 | 113.8 | . 1547 | . 1517 | 151.7 | 15170 | 15.17 |
| 2.3 | 63.67 | 4.683 | 1617 | 118.9 | . 1617 | . 1586 | 158.6 | 15860 | 15.86 |
| 2.4 | 66.43 | 4.886 | 1687 | 124.1 | . 1687 | . 1655 | 165.5 | 16550 | 16.55 |
| 2.5 | 69.20 | 5.090 | 1758 | 129.3 | . 1758 | . 1724 | 172.4 | 17240 | 17.24 |
| 2.6 | 71.97 | 5.294 | 1828 | 134.5 | . 1828 | . 1793 | 179.3 | 17930 | 17.93 |
| 2.7 | 74.74 | 5.497 | 1898 | 139.6 | . 1898 | . 1862 | 186.2 | 18620 | 18.62 |
| 2.8 | 77.51 | 5.701 | 1969 | 144.8 | . 1968 | . 1930 | 193.0 | 19300 | 19.30 |
| 2.9 | 80.27 | 5.904 | 2039 | 150.0 | . 2039 | . 1999 | 199.9 | 19990 | 19.99 |
| 3.0 | 83.04 | 6.108 | 2109 | 155.1 | . 2109 | . 2068 | 206.8 | 20680 | 20.68 |
| 3.1 | 85.81 | 6.312 | 2180 | 160.3 | . 2180 | . 2137 | 213.7 | 21370 | 21.37 |
| 3.2 | 88.58 | 6.515 | 2250 | 165.5 | . 2250 | . 2206 | 220.6 | 22060 | 22.06 |
| 3.3 | 91.35 | 6.719 | 2320 | 170.7 | . 2320 | . 2275 | 227.5 | 22750 | 22.75 |
| 3.4 | 94.11 | 6.922 | 2390 | 175.8 | . 2390 | . 2344 | 234.4 | 23440 | 23.44 |
| 3.5 | 96.88 | 7.126 | 2461 | 181.0 | . 2461 | . 2413 | 241.3 | 24130 | 24.13 |
| 3.6 | 99.65 | 7.330 | 2531 | 186.2 | . 2531 | . 2482 | 248.2 | 24820 | 24.82 |
| 3.7 | 102.4 | 7.533 | 2601 | 191.3 | . 2601 | . 2551 | 255.1 | 25510 | 25.51 |
| 3.8 | 105.2 | 7.737 | 2672 | 196.5 | . 2672 | . 2620 | 262.0 | 26200 | 26.20 |
| 3.9 | 108.0 | 7.940 | 2742 | 201.7 | . 2742 | . 2689 | 268.9 | 26890 | 26.89 |
| 4.0 | 110.7 | 8.144 | 2812 | 206.9 | . 2812 | . 2758 | 275.8 | 27580 | 27.58 |
| 4.1 | 113.5 | 8.348 | 2883 | 212.0 | . 2883 | . 2827 | 282.7 | 28270 | 28.27 |
| 4.2 | 116.3 | 8.551 | 2953 | 217.2 | . 2953 | . 2896 | 289.6 | 28960 | 28.96 |
| 4.3 | 119.0 | 8.775 | 3023 | 222.4 | . 3023 | . 2965 | 296.5 | 29650 | 29.65 |
| 4.4 | 121.8 | 8.958 | 3094 | 227.5 | . 3094 | . 3034 | 303.4 | 30338 | 30.34 |
| 4.5 | 124.6 | 9.162 | 2164 | 232.7 | . 3164 | . 3103 | 310.3 | 31030 | 31.03 |
| 4.6 | 127.3 | 9.366 | 3234 | 237.9 | . 3234 | . 3172 | 317.2 | 31720 | 31.72 |
| 4.7 | 130.1 | 9.569 | 3304 | 243.1 | . 3304 | . 3240 | 324.0 | 32400 | 32.40 |
| 4.8 | 132.9 | 9.773 | 3375 | 248.2 | . 3375 | . 3310 | 331.0 | 33100 | 33.10 |
| 4.9 | 135.6 | 9.976 | 3445 | 253.4 | . 3445 | . 3378 | 337.8 | 33780 | 33.78 |
| 5.0 | 138.4 | 10.18 | 3515 | 258.6 | . 3515 | . 3447 | 344.7 | 34470 | 34.47 |
| 5.1 | 141.2 | 10.38 | 3586 | 263.7 | . 3586 | . 3516 | 351.6 | 35160 | 35.16 |
| 5.2 | 143.9 | 10.59 | 3656 | 268.9 | . 3656 | . 3585 | 358.5 | 35850 | 35.85 |
| 5.3 | 146.7 | 10.79 | 3726 | 274.1 | . 3726 | . 3654 | 365.4 | 36540 | 36.54 |
| 5.4 | 149.5 | 10.99 | 3797 | 279.3 | . 3797 | . 3723 | 372.3 | 37230 | 37.23 |
| 5.5 | 152.2 | 11.20 | 3867 | 284.4 | . 3867 | . 3792 | 379.2 | 37920 | 37.92 |


| Pressure Conversions | Flow |
| :---: | :---: |
| Lbf/ $/ \mathrm{n}^{2}=$ Pounds force | $\overline{\mathrm{dm} / \mathrm{s}}=$ Cubic decimetres per second |
| per square inch (psi) | $\mathrm{ft}^{3} / \mathrm{Min}=$ Cubic feet per minute <br> $1 / \mathrm{Min}=$ Litres per minute |
| $1 \mathrm{psi}=27.6804 \mathrm{in} / \mathrm{H}_{2} \mathrm{O}$ |  |
| $1 \mathrm{psi}=2.03602 \mathrm{in} / \mathrm{Hg}$ | $1 \mathrm{dm}^{3} / \mathrm{s}=2.119 \mathrm{ft}^{3} / \mathrm{Min}$ |
| $1 \mathrm{psi}=68.9476 \mathrm{mbar}$ | $1 \mathrm{dm}^{3} / \mathrm{s}=60 \mathrm{Litres} / \mathrm{Min}$ |
| $1 \mathrm{psi}=703.082 \mathrm{~mm} / \mathrm{H}_{2} \mathrm{O}$ | $1 \mathrm{Lt} / \mathrm{Min}=0.0353 \mathrm{ft}^{3} / \mathrm{Min}$ |
| $1 \mathrm{psi}=0.0689$ bar |  |
| $1 \mathrm{in} / \mathrm{H}_{2} \mathrm{O}=25.4 \mathrm{~mm} / \mathrm{H}_{2} \mathrm{O}$ |  |
| $1 \mathrm{in} / \mathrm{H}_{2} \mathrm{O}=1.86832 \mathrm{~mm} / \mathrm{Hg}$ |  |
| $1 \mathrm{in} / \mathrm{H}_{2} \mathrm{O}=2.49089$ |  |


| P.S.I | in/ $\mathrm{H}_{2} \mathrm{O}$ | in/Hg | mm/ $/ \mathrm{H}_{2} \mathrm{O}$ | $\mathrm{mm} / \mathrm{Hg}$ | kg/cm² | bar | mbar | Pa | kPa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5.6 | 155.0 | 11.40 | 3937 | 289.6 | . 3937 | . 3861 | 386.1 | 38610 | 38.61 |
| 5.7 | 157.8 | 11.60 | 4008 | 294.8 | . 4007 | . 3930 | 393.0 | 39300 | 39.30 |
| 5.8 | 160.5 | 11.81 | 4078 | 299.9 | . 4078 | . 3999 | 399.9 | 39990 | 39.99 |
| 5.9 | 163.3 | 12.01 | 4148 | 305.1 | . 4148 | . 4068 | 406.8 | 40680 | 40.68 |
| 6.0 | 166.1 | 12.22 | 4218 | 310.3 | . 4218 | . 4137 | 413.7 | 41370 | 41.37 |
| 6.1 | 168.8 | 12.42 | 4289 | 315.5 | . 4289 | . 4206 | 420.6 | 42060 | 42.06 |
| 6.2 | 171.6 | 12.62 | 4359 | 320.6 | . 4359 | . 4275 | 427.5 | 42750 | 42.75 |
| 6.3 | 174.4 | 12.83 | 4429 | 325.8 | 4429 | . 4344 | 434.4 | 43440 | 43.44 |
| 6.4 | 177.2 | 13.03 | 4500 | 331.0 | . 4500 | . 4413 | 441.3 | 44130 | 44.13 |
| 6.5 | 179.9 | 13.23 | 4570 | 336.1 | 4570 | 4482 | 448.2 | 44820 | 44.82 |
| 6.6 | 182.7 | 13.44 | 4640 | 341.3 | 4640 | . 4550 | 455.0 | 45500 | 45.50 |
| 6.7 | 185.5 | 13.64 | 4711 | 346.5 | . 4710 | . 4619 | 461.9 | 46190 | 46.19 |
| 6.8 | 188.2 | 13.84 | 4781 | 351.7 | . 4781 | . 4688 | 468.8 | 46880 | 46.88 |
| 6.9 | 191.0 | 14.05 | 4851 | 356.8 | . 4851 | . 4757 | 475.7 | 47570 | 47.57 |
| 7.0 | 193.8 | 14.25 | 4922 | 362.0 | 4921 | . 4826 | 482.6 | 48260 | 48.26 |
| 7.1 | 196.5 | 14.46 | 4992 | 367.2 | . 4992 | . 4895 | 489.5 | 48950 | 48.95 |
| 7.2 | 199.3 | 14.66 | 5062 | 372.3 | . 5062 | . 4964 | 496.4 | 49640 | 49.64 |
| 7.3 | 202.1 | 14.86 | 5132 | 377.5 | . 5132 | . 5033 | 503.3 | 50330 | 50.33 |
| 7.4 | 204.8 | 15.07 | 5203 | 382.7 | . 5203 | . 5102 | 510.2 | 51020 | 51.02 |
| 7.5 | 207.6 | 15.27 | 5273 | 387.9 | . 5273 | . 5171 | 517.1 | 51710 | 51.71 |
| 7.6 | 210.4 | 15.47 | 5343 | 393.0 | . 5343 | . 5240 | 524.0 | 52400 | 52.40 |
| 7.8 | 215.9 | 15.88 | 5484 | 403.4 | . 5484 | . 5378 | 537.8 | 53780 | 53.78 |
| 8.0 | 221.4 | 16.29 | 5625 | 413.7 | . 5625 | . 5516 | 551.6 | 55160 | 55.16 |
| 8.2 | 227.0 | 16.70 | 5765 | 424.1 | . 5765 | . 5654 | 565.4 | 56540 | 56.54 |
| 8.4 | 232.5 | 17.10 | 5906 | 434.4 | . 5906 | . 5792 | 579.2 | 57920 | 57.92 |
| 8.6 | 238.0 | 17.51 | 6047 | 444.7 | . 6046 | . 5929 | 592.9 | 59290 | 59.29 |
| 8.8 | 243.6 | 17.92 | 6187 | 455.1 | . 6187 | . 6067 | 606.7 | 60670 | 60.67 |
| 9.0 | 249.1 | 18.32 | 6328 | 465.4 | . 6328 | . 6205 | 620.5 | 62050 | 62.05 |
| 9.2 | 254.7 | 18.73 | 6468 | 475.8 | . 6468 | . 6343 | 634.3 | 63430 | 63.43 |
| 9.4 | 260.2 | 19.14 | 6609 | 486.1 | . 6609 | . 6481 | 648.1 | 64810 | 64.81 |
| 9.6 | 265.7 | 19.54 | 6750 | 496.5 | . 6749 | . 6619 | 661.9 | 66190 | 66.19 |
| 9.8 | 271.3 | 19.95 | 6890 | 506.8 | . 6890 | . 6757 | 675.7 | 67570 | 67.57 |
| 10.0 | 276.8 | 20.36 | 7031 | 517.1 | . 7031 | . 6895 | 689.5 | 68950 | 68.95 |
| 11.0 | 304.5 | 22.40 | 7734 | 568.9 | . 7734 | . 7584 | 758.4 | 75840 | 75.84 |
| 12.0 | 332.2 | 24.43 | 8437 | 620.6 | . 8437 | . 8274 | 827.4 | 82740 | 82.74 |
| 13.0 | 359.8 | 26.47 | 9140 | 672.3 | . 9140 | . 8963 | 896.3 | 98630 | 89.63 |
| 14.0 | 387.5 | 28.50 | 9843 | 724.0 | . 9843 | . 9652 | 965.2 | 96520 | 96.52 |
| 14.7 | 406.9 | 29.93 | 10340 | 760.2 | 1.033 | 1.014 | 1014 | 101400 | 101.4 |
| 15.0 | 415.2 | 30.54 | 10550 | 775.7 | 1.055 | 1.034 | 1034 | 103400 | 103.4 |
| 16.0 | 442.9 | 32.58 | 11250 | 827.4 | 1.125 | 1.103 | 1103 | 110300 | 110.3 |
| 17.0 | 470.6 | 34.61 | 11950 | 879.1 | 1.195 | 1.172 | 1172 | 117200 | 117.2 |
| 18.0 | 498.2 | 36.65 | 12660 | 930.9 | 1.265 | 1.241 | 1241 | 124100 | 124.1 |
| 19.0 | 525.9 | 38.68 | 13360 | 982.6 | 1.336 | 1.310 | 1310 | 131000 | 131.0 |
| 20.0 | 553.6 | 40.72 | 14060 | 1034 | 1.406 | 1.379 | 1379 | 137900 | 137.9 |
| 25.0 | 692.0 | 50.90 | 17580 | 1293 | 1.758 | 1.724 | 1724 | 172400 | 172. 4 |





## Benefits

IP40 and IP67 Housings with rear fixing positions
Variations of air or electrical connections
Unlimited options available - contact herga with your requirements

Back entry versions for pressure switch connections
Available for all herga switching systems
Custom designed labels and housing colours available for volume OEM requirements


## Part Number: 6819-00 Variants

The most economical and compact housing, produced especially for hergair switches. Double insulated sealed enclosure is moulded in two tone black and white ABS as standard. The lid has an integral rubber sealing gasket and captive screws. Mounting holes and lid fixing screws are outside the seal, thus preventing the ingress of moisture and making the box waterproof to IP65.

The standard 6819-00 housing is supplied with a cable gland for cable diameter 5 mm to 7 mm and a type 6418-00 air tube connector is fitted.

The housing is suitable for all airswitches except model 6806.


## Part Number: 6816-00 Variants

Diecast aluminium housing for airswitch types except 6806 models. Finished in blue stove enamel. Ideal for use where electrical screening is required.

Other colour variants are available upon request as are specified fixing positions to suit your requirements.

Where a number of airswitches are to be fitted in one box, herga can supply a variety of special boxes complete with multi-way air connectors and electrical connections as required.

## Note:

Herga can offer many other variants of electrical housings in size and colour up to IP67. We also manufacture world-wide (plug in) switch housings with or without cordsets in conjunction with our airswitching systems. Please contact us with your specific requirements.

## Rapid Response Form (Photostat and fax back)

It is our goal to give you a response within 24 hours. By completing this form it will help us to help you! Thank you.


[^1]$$
2
$$

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for herga manufacturer:
Other Similar products are found below :
6433-0019 6289-PP 6254-OB 6442-OW 6438-ACAC-AB00 6227-0004 6289-01 6251-BAAA-CBZ0 6226-0003 6438-ABAB-AB00 6289-
CC 6753-AEJA-A000 6448-AAAB-0000 6871-0C


[^0]:    Gold contacts available
    Other pressures available up to 10 PSI
    Multiple cap and spout options available

[^1]:    QUANTITY REQUIRED FOR PROTOTYPE?

    ANNUAL PRODUCTION QUANTITY? $\qquad$
    REQUIRED DATE $\qquad$

    CURRENT SWITCH USED? $\qquad$ START DATE $\qquad$

    PRICE RANGE $\qquad$
    ANY PROBLEMS WITH PRESENT UNIT?

