**General precautions**

- Products should be specified, installed and maintained by competent persons in line with relevant health and safety requirements.
- They must not be used outside their stated specifications in this list without appropriate modification, repair or use outside the stated limitations may invalidate a product’s warranty.

- The installation of products that are certified either Ex ia or Ex d must be made in accordance with IEC 61241-1 and IEC 61508.
- It is the responsibility of the end user to ensure that the product’s material is compatible with the process media and the surrounding atmosphere.

- If products are being fitted to a system where fluid flow may become unstable and cause pressure to pulsate or surge rapidly, it is imperative that a means of identifying the component element be provided by adding a pressure sensor for example.

- A pressure sensor is a system where the pressure transition exceed the limits stated for a particular application and may cause 'hammering'.

- Products should be mounted such that a free unobstructed path of air is ensured to ensure that there are no hazards due to mechanically generated gases. Installers are responsible for ensuring that the mounting is in accordance with the requirements of appropriate recognised standards, the product, or persons undertaking this task must be suitable qualified and legally appointed for site/company safety.

**Materials of construction**

See overview on a full list covering switch case outer covers, switch end, wiring and cable entry, terminal block, diaphragms and pressure seals, environmental seals, barriers, electrical connection and cable.

**CE marking**


All Argus switch types are deemed to fall within the sound engineering practice (SEP) category, as defined by Chapter 1, Article 4, paragraph 3 of Directive 2014/34/EU (Pressure Equipment). As such, CE marking of Argus products are in agreement with Directive 2014/34/EU, but not Directive 2014/35/EU.

**Hazardous area use**

Ex or certified products satisfy the applicable essential health and safety requirements contained in Directives 2014/34/EU/ATEX & 2014/35/EU/UL Low Voltage through the following standards:

- IEC 60079-0:2010
- IEC 60079-11:2011
- IEC 62368-1:2009

- The product must be specified, installed, and maintained by competent persons in line with relevant health and safety requirements.

- They must not be used outside their stated specifications in this list without appropriate modification, repair or use outside the stated limitations may invalidate a product’s warranty.

**Operational ambient:**

- Temperature: 
  - Storage: 
  - Operation: 
- Relative Humidity: 
- Vibration: 
- Mechanical shock: 
- Airborne noise: 

**Electrical connections**

- Flying leads/products sold without a split gland:
  - Products with split glands have only one double insulated cable of nominal outer diameter 6.8mm and 10mm.
  - Products with double microswitches and a gland having a double insulated cable of nominal outer diameter 6.8mm and 10mm.

- Flying leads/products sold with a split gland:
  - The products sold without a split gland are fitted with a welding connecting confirms a conforming use of the welding.

- When flying leads sold with split glands are to be installed in a hazardous area, the end-user must specify and fit a suitable cable gland themselves.

**Spares**

- Diaphragm, pressure seal and environmental seal kits are available for the following switch types:
  - P_4, 5, 6, 7, 11, 12
  - F_3, 5, 6, 7
  - G, H, I, J
  - F_3, 5, 6, 7, P_4, 5, 6, 7
  - G, H, I, J
  - F_3, 5, 6, 7, P_4, 5, 6
  - G, H, I
  - F_3, 5, 6
  - G, H
  - H_4.2, 5.6

**Set-point adjustment**

**Routine maintenance**

- The end-user must ensure that products are isolated from associated power to disconnect circuit before handling or commissioning them from the system. Temperatures of exposed surfaces should be checked beforehand using a non-contact pyrometer.

- Pyrometers recommend all products be inspected and operated at least once every year. Products connected to electrical connections should be checked to ensure everything is correct.

- In addition, the Gom-Tex vents should be visually checked for signs of damage.

- Operating, backup and alarm circuits and diaphragms should be repaired every 2 years. Microswitch assemblies should be removed every 5 to 10 years, depending on usage.

**Fault diagnosis**

- In the event that a product fails to operate correctly, please check that:
  - All process entry connections are screwed/clamped tight and there is no discernible leakage of the media.

- There are no large objects inside the switch case or interconnecting piping.

- The positioned firmly in response to changes in temperature, pressure, sourc, temperature, level or flow.

- Microswitches are functioning, confirmed by observing a change in both they operate and they react.

- If after taking these steps the problem still persists, please contact Pyrometers.

**Contact details**

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