

Switches/Sensors/Controller

Flow Sensor PFMV



Adsorption confirmation of minute workpieces. Repeatability: $\pm 2\%$ F.S. or less. Response speed: 5 ms or less, withstand pressure: 500 kPa. Grease-free, RoHS compatible. Covers total range with one voltage monitor. Related equipment: Suction filter series ZFC05

Digital Flow Switch PF2W



Integrated type and separate monitor type are available. Switch output, accumulated pulse output, analogy output. Capable of switching back and forth between cumulative and instantaneous flow and IP65.

IFW5



Flow Switch/Diaphragm Style IFW5. Used as a general relaying device when water stoppage or water volume reduction occurs during the use of a cooling water system, etc, With neon light.

IS10

IS10, Pressure Switch, Reed Switch Type



- * Weight: 62g (16% lighter than IS1000)
- * Overall height: 52mm (11% smaller than IS1000)
- * 100V AC/DC specifications
- * Service life: 5 million cycles
- * Can be connected to modular type FRL units
- * RoHS compliant & CE marked

IS3000



IS3000, Mechanical Pressure Switch, AC/DC. Mechanical pressure switch rated to 10 million cycles. Set pressure range: 0.1 to 0.7 MPa. Switch output is AC/DC circuit voltage for standard and micro industrial loads. Minimum electrical load: 5 VDC/160 mA (standard) or 5 VDC /1mA (micro).

Repeatability: ± 0.05 MPa. Hysteresis: 0.05 MPa or less. IS3000 is a mechanical pressure switch for applications where an electronic switch is unsuitable, or when it is desirable to trigger an electrical device when the set point is reached.

This mechanical switch offers excellent hysteresis and repeatability. The circuit can be wired normally open or closed, with either AC or DC voltage and an optional micro load amperage. Optional indicator lights are also available. Any non-corrosive, non-flammable gas can be monitored. IP40 enclosure rating.

ISA3



IS3000, Mechanical Pressure Switch, AC/DC. IS3000 is a mechanical pressure switch for applications where an electronic switch is unsuitable, or when it is desirable to trigger an electrical device when the set point is reached. This mechanical switch offers excellent hysteresis and repeatability. The circuit can be wired normally open or closed, with either AC or DC voltage and an optional micro load amperage. Optional indicator lights are also available. Any non-corrosive, non-flammable gas can be monitored. IP40 enclosure rating. Mechanical pressure switch rated to 10 million cycles. Set pressure range: 0.1 to 0.7 MPa. Switch output is AC/DC circuit voltage for standard and micro industrial loads. Minimum electrical load: 5 VDC/160 mA (standard) or 5 VDC /1mA (micro). Repeatability: ± 0.05 MPa. Hysteresis: 0.05 MPa or less. 3-Color Display Digital Gap Checker ISA3 Series.

ISE35



SE35, Digital Pressure Sensor for FRLs, 1 Screen 1 Output, IP40. ISE35 is a digital pressure sensor that integrates with multiple regulators and FRL combinations from SMC, including series AC, AR, ARM, ARP and AW. The ISE35 mounts into a ported interface on any compatible series using an included mounting kit. A detachable 3-wire cable includes power and switch output leads. Instantaneous readings are shown on the 3 digits, 2 colour display. The colour can be set to red or green, or shifted from one to the other to alert when reaching a set point. An indicator for the switch output is also visible. Additional functions enhance security, power saving, and response time. Verify regulator settings with digital gauge in dry environments. Pressure range: 0-1 MPa. 4 pressure units: MPa, kg./cm², bar, psi. Switch output: Hysteresis or window comparator (NPN or PNP). Display accuracy: $\pm 2\%$ F.S. Repeatability: $\pm 1\%$ F.S. Digital Pressure Switch (Built-in Regulator Type) Series ISE35

ISE70/75/75H



When R&D engineers from leading automation control experts SMC Pneumatics were asked to develop a compact, high-pressure switch, incorporating a large digital display, to monitor both coolant and hydraulic fluids – the new Series ISE 70/75 was their perfect response. Effectively extending the existing SMC pressure switch range, this high performance, yet lightweight, pressure controls are available in three options: ISE 70 for use with air or inert and incombustible gases – monitoring a set rated pressure range between -0.1 to 1MPa, and the ISE 75 and 75H models for use with fluids requiring a set rated pressure of up to 10MPa and 15MPa respectively. With die-cast aluminium bodies and 4 setting control options, the operating status can be quickly seen, by viewing the highly visible 10mm high character dual colour displays. Available with 2 or 1 outputs, Rc, NPT or G1/4 port thread options and with fixed or selectable MPa or PSI pressure indications, these switches conform to both CE and UL/CSA global accreditations and IP67 enclosure ratings, making them the ultimate solution in high pressure control. 2-Color Display Digital Pressure Switch Series ISE70/75/75H

ZSE / ISE1



Compact Pressure Switch ZSE/ISE1. Can be integrated with ZM ejector system. Compact Pressure Switch Series ZSE1 (For Vacuum) / ISE1 (For Positive Pressure).

ZSE / ISE2



Compact Pressure Switch ZSE/ISE2. Can be integrated with ZX or ZR ejector system. Suction filter comes as standard. Compact Pressure Switch Series ZSE2 (For Vacuum)/ISE2 (For Positive Pressure).

ZSE / ISE3



LCD Readout Digital Pressure Switch ZSE & ISE3. Built-in failure prediction output function can be integrated with a vacuum unit, Series ZX. Suction filter comes as standard. LCD Readout Digital Pressure Switch Series ZSE3 (For Vacuum) / ISE3 (For Positive Pressure).

ZSE ISE80



Suitable for a wide variety of fluids with stainless diaphragm IP65, RoHS compatible. Low leakage. VCR®, Swagelok® compatible fittings can be selected. Back piping, underside piping. 2-Color Display Digital Pressure Switch Series ZSE80(F) / ISE80(H).

ZSE10(F) / ISE10

Digital Pressure Switch Series ZSE10(F) / ISE10. Our new ZSE10(F)/ISE10 pressure switches really do fit the bill when lack of available machine space is an issue. Designed specifically with space savings in mind, and measuring only 9.8 mm width, they offer similar performance to our popular ZSE30A/ISE30A models but require around 50% less mounting space. Further features of these switches include a copy function where the setting of the master sensor can be copied on up to 10 slave sensors simultaneously resulting in reduced setting time and human setting errors. Also, all settings can be protected against unwanted manipulation using the switch's password setting function and with their improved multi-angle direction visibility; vacuum suction and pressure checks can be made at a glance. Available in direct, panel and DIN rail mounting options and with side or rear piping directions, these digital pressure switches really lend themselves to multiple switch applications when panel space is restricted. And in keeping with our commitment to help save energy, these switches are also extremely energy efficient as they consume around 20% less power thanks to their in-built power saving function.

