SAMSOMATIC
Solenoid Valves and Limit Switches
Technology for the Future

From the idea to the fully fledged product

The tried-and-tested SAMSOMATIC solenoid valves and limit switches provide a high level of operational reliability and excellent plant availability. New intrinsically safe or flameproof versions, which are suitable for a wide variety of applications, have been added to the successful SAMSOMATIC instrumentation range.

Efficient power usage
An e/p binary converter, which has proven reliable a million times over in service, works together with a booster and forms the heart of the solenoid valves. Thanks to their low power consumption, the solenoid valves can also be actuated over intrinsically safe fieldbus networks. This efficient power usage also reduces the amount of self-generated heat and cuts the cost for an emergency power supply.

Functional safety
The solenoid valves and limit switches are certified for use in safety-related systems up to SIL 4 in compliance with IEC 61508.

Customized solutions
The various switching functions, flow factors and connections result in a wide variety of product configurations to provide tailor-made solutions that meet all customer requirements.

Type 3963 Solenoid Valve

Nominal signal
6/12/24 V DC or 24/48/115/230 V AC

Power consumption
6 to 27 mW or 0.04 to 0.46 VA

Switching function
K<sub>vs</sub>
3/2, 5/2, 5/3 or 6/2-way

Attachment
0.16 to 4.3
Rail or wall mounting
Direct attachment to linear actuators using a connection block
Attachment to linear actuators with NAMUR rib acc. to IEC 60534-6
Attachment to rotary actuators with NAMUR interface acc. to VDI/VDE 3845

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- Type of protection: “Intrinsic safety”
- Safety function (SIL) in compliance with IEC 61508
- Certified for safety-related shut-off equipment
- Control of linear and rotary actuators

Customized solutions
### Type 3967 Solenoid Valve

**Nominal signal**
6/12/24 V DC

**Power consumption**
6 to 27 mW

**Switching function**
3/2 or 5/2-way

**Attachment**
0.32 to 4.3

- Direct attachment to linear actuators using a connection block
- Attachment to linear actuators with NAMUR rib acc. to IEC 60534-6
- Attachment to rotary actuators with NAMUR interface acc. to VDI/VDE 3845

- Type of protection “Intrinsic safety”
- Safety function (SIL) in compliance with IEC 61508
- Control of linear and rotary actuators

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### Type 3966 Solenoid Valve

**Nominal signal**
6/12/24 V DC

**Power consumption**
6 to 27 mW

**Switching function**
3/2-way

**Attachment**
0.7

- Direct attachment to linear actuators using a connection block
- Attachment to linear actuators with NAMUR rib acc. to IEC 60534-6
- Attachment to rotary actuators with NAMUR interface acc. to VDI/VDE 3845

- Type of protection “Flameproof enclosure”
- Control of linear and rotary actuators
**Type 3776 Limit Switch**

- Type of protection: “Intrinsic safety”
- Safety function (SIL) in compliance with IEC 61508
- Monitoring and control of linear and rotary actuators
- Adjustable contacts
- Integrated solenoid valve

**Contacts**

- Max. 3 inductive proximity switches or electric microswitches

**Solenoid valve**

- Nominal signal: 6/12/24 V DC or 24/115/230 V AC
- Power consumption: 6 to 27 mW or 0.04 to 0.46 VA
- Switching function: 3/2, 5/2 or 5/3-way
- $K_{VS}$: 0.2 to 0.3

**Attachment**

- Direct attachment to linear actuators
- Attachment to rotary actuators with mounting interface acc. to VDI/VDE 3845

**Type 4747 Limit Switch**

- Type of protection: “Flameproof enclosure”
- Monitoring of linear and rotary actuators
- Adjustable contacts

**Contacts**

- Max. 2 inductive proximity switches or electric microswitches

**Solenoid valve**

- Direct attachment to linear actuators
- Attachment to linear actuators with NAMUR rib acc. to IEC 60534-6
- Attachment to rotary actuators with mounting interface acc. to VDI/VDE 3845
SAMSON and SAMSOMATIC worldwide

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