



**DS 4011, DS 4012
DS 4021, DS 4022
DS 4014, DS 4015
DS 4024, DS 4025**

**G 1/8
G 1/4**

**0.5 to 2.0 bar
1.0 to 10.0 bar**

Optionally

NO NC

Characteristics

| | | | | | |
|-------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Order No. | NO | DS 4011 - 102993 | DS 4012 - 102994 | DS 4014 - 102996 | DS 4015 - 102997 |
| Adjustment range | [bar] | 0.5 to 2.0 | 1.0 to 10.0 | 0.5 to 2.0 | 1.0 to 10.0 |
| Thread | | G 1/8 | | G 1/4 | |
| Order No. | NC | DS 4021 - 102999 | DS 4022 - 103000 | DS 4024 - 103002 | DS 4025 - 103003 |
| Adjustment range | [bar] | 0.5 to 2.0 | 1.0 to 10.0 | 0.5 to 2.0 | 1.0 to 10.0 |
| Thread | | G 1/8 | | G 1/4 | |

General

| | | | | | |
|-----------------------------|---|--|--|---------------------------------------|--|
| Type of construction | Spring-loaded diaphragm | | | | |
| Diaphragm | NBR Special designs: FKM, CR, EPDM, KALREZ | | | | |
| Mounting type | Male thread | | | | |
| Thread | G 1/4", G 1/8" (standard) | | | M12 x 1.5, M10 x 1 conical on request | |
| Mounting position | Any | | | | |
| Temperature range (ambient) | -25 °C to +85 °C | | | Higher temperatures on request | |
| Media | Air, hydraulic oil, oil emulsions, water | | | Other media on request | |
| Weight [g] | 65 | | | | |
| Mechanical endurance | 10 ⁶ | | | | |
| Material | Galvanised steel | | | Brass, VA on request | |
| Adjustment | Adjusting screw (M8 to DIN 914) | | | | |

Pneumatic

| | | | | |
|------------------------------------|---------------------------|----|----|----|
| Working pressure [bar] | 2 | 10 | 2 | 10 |
| Burst pressure [bar] | 10 | 20 | 10 | 20 |
| Adjustment | Under pressure | | | |
| Differential reset pressure | Approx. 15% to 25% | | | |

Electrical

| | | | | |
|--------------------------------|--|--|--|-----------------------------|
| Switching voltage ~ / = | Max. 42 V | | | |
| Switching element | Microswitch, silver-plated contacts | | | Special design: Gold-plated |
| Rated voltage | 42 V in accordance with EU Directive | | | |
| Rated frequency | Max. 100 Hz | | | |
| Max. switching frequency | 200/min. | | | |
| Max. load | 2 A | | | |
| No. of poles | 2 | | | |
| Electrical connection | Tab connectors 2 x 6.3 x 0.8 | | | |
| Degree of protection | IP65 with protective cap, terminals to IP00 (DIN 40050) | | | |
| Switching capacity | 100 VA (60 W) | | | |

Important

It is recommended not to use only the manometric switch to separate the device from the mains. Currents which are too high may damage the contacts. Spark-quenching devices must be provided in inductively loaded DC circuits, e.g. magnets.

Protective cap

| Article No. | Type No. | Description |
|-------------|----------|---|
| 103008 | DS 20 | for pressure switch vacuum type |
| 103009 | DS 30 | for pressure switch standard type and changeover type |
| 103010 | DS 40 | for pressure switch mini type |