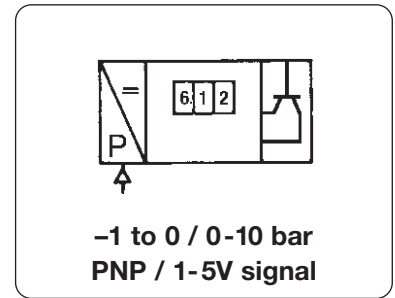


|                          |  |   |   |
|--------------------------|--|---|---|
| <b>Description</b>       | Pressure to the unit is continuously monitored by a piezo-resistive sensor and converted into a proportional voltage signal. The signal is then amplified and delivered as a PNP signal. |   |   |
| <b>DSB with monitor</b>  | Mode: hysteresis or window   | Signal: NC or NO                                  | Error: overcurrent, pressure instead of vacuum etc. |
| <b>DSC with teach in</b> | Display: bar, psi Mpa, kgf/cm <sup>2</sup> Display: current pressure, highest pressure, measurement errors   |   |   |
| <b>Supply voltage</b>    | Outlet signal: 2 x PNP as NC or NO, load max. 125 mA at 24V DC   |   |   |
| <b>Media</b>             | Outlet signal: 1 x PNP as NC or NO and 1 analogue signal 1-5V, load resistance < 500 Ω   |   |   |
| <b>Repeatability</b>     | 24V DC (11-30V), Current consumption < 35 mA, Outlet load < 250 / PNP outlet   |   |   |
| <b>Hysteresis</b>        | compressed air or gas, dry and oil-free  |   |   |
| <b>LED</b>               | < 0.2% FS  |   |   |
| <b>Certification</b>     | 3-digit, 7-segment display, only DSB   |   |   |
| <b>Error information</b> | according to CE, UL and CSA  |   |   |
| <b>Temperature range</b> | via display only DSB   |   |   |
| <b>Material</b>          | operating temp. 0° C to 50 °C / 32 °F to 120 °F  |   |   |
|                          | <b>Switch frequency</b>  | 200 Hz (DSB), 400 Hz (DSC)                        |   |
|                          | <b>Linearity</b>   | 1% FS   |   |
|                          | <b>Mounting position</b>   | any   |   |
|                          | <b>Protection class</b>  | IP65  |   |
|                          |  | via multicolor LED display, only DSC              |   |
|                          |  | storage temp. - 20 °C to + 85 °C / - 4°F to 180°F |   |
|                          |  | port threads of brass, nickel-plated              |   |



| Dimensions |      | Digital display | Outlet signal | Pressure range | Order number |
|------------|------|-----------------|---------------|----------------|--------------|
| H          | hex. | with/without    | PNP/analogue  | bar            |              |
| mm         | mm   |                 |               |                |              |

| Sensor pressure switch |    | for gases and air, without connector | port G1/8 and M5i M8x1, 4-pin | DS              |
|------------------------|----|--------------------------------------|-------------------------------|-----------------|
| 57                     | 16 | with                                 | 2 x PNP                       | <b>DSB - V1</b> |
|                        |    |                                      |                               | <b>DSB - 10</b> |
| 44                     | 16 | without                              | 1 x PNP<br>1 x analog         | <b>DSC - V1</b> |
|                        |    |                                      |                               | <b>DSC - 10</b> |



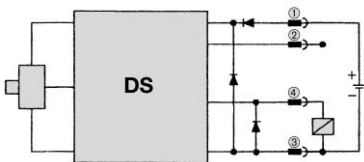
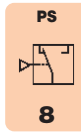
DSB with display



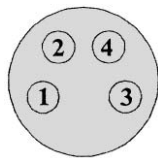
DSC

## Accessories

|                    |                            |                     |
|--------------------|----------------------------|---------------------|
| straight connector | M8x1, 4-pin with 5 m cable | <b>KM8 - A4 - 5</b> |
| angle connector    | M8x1, 4-pin with 5 m cable | <b>KM8 - C4 - 5</b> |

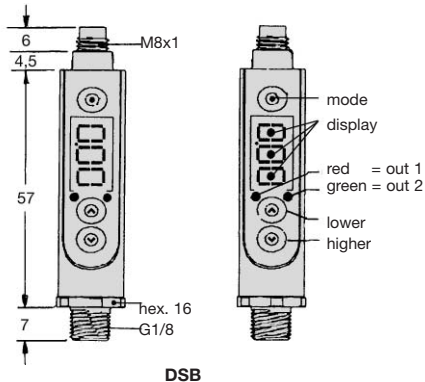
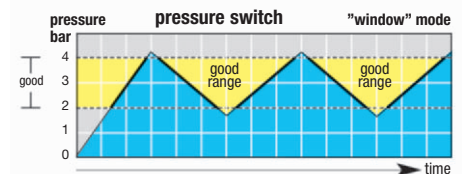
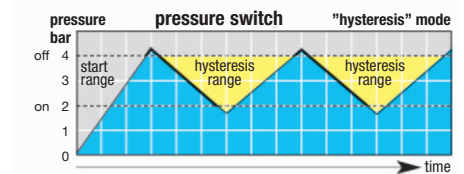
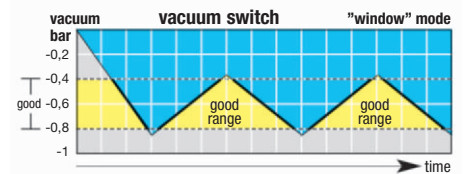
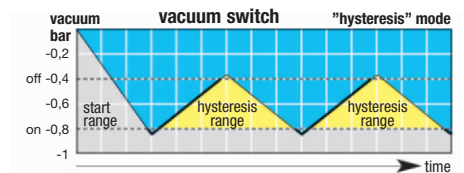


connection drawing

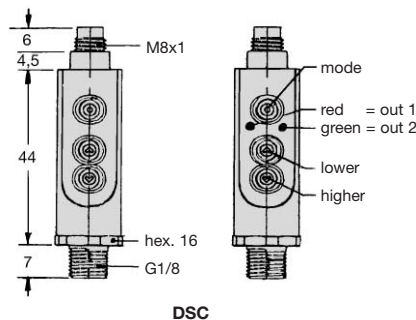


PIN connection according DIN EN 500 44

| pin | connection       | colour |
|-----|------------------|--------|
| ①   | 24V DC (+)       | brown  |
| ②   | Out 2 / analogue | white  |
| ③   | 24V DC (-)       | blue   |
| ④   | Out 1/digital    | black  |



DSB



DSC

|                              |                  |                     |                  |                                   |                                 |
|------------------------------|------------------|---------------------|------------------|-----------------------------------|---------------------------------|
| <b>For your information:</b> | 1 bar: 14.5 psi  | 1 l/min: 0.035 scfm | 1 mm: 0.039 inch | 1 mbar: 0.4 inch H <sub>2</sub> O | 1 mbar: 0.01 m H <sub>2</sub> O |
|                              | 1 psi: 0.069 bar | 1 scfm: 28.3 l/min  | 1 inch: 25.4 mm  | 1 inch H <sub>2</sub> O: 2.5 mbar | 1 m H <sub>2</sub> O: 98 mbar   |



**Order example:**  
**DSB-10**