

**Electronic pressure switch
Group DS-EP-40-D-2**

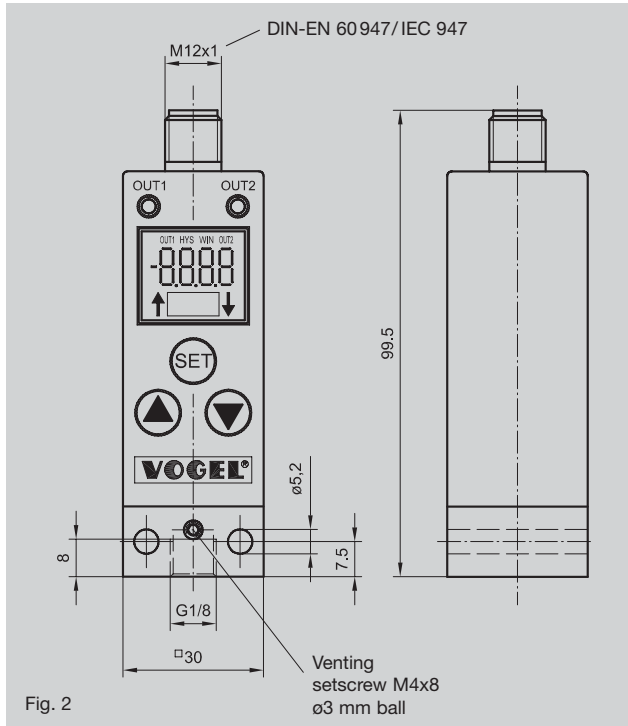


Fig. 2

Technical data

General characteristics

- Rated pressure range 0 - 40 bars
- Permissible overpressure 100 bars
- Rupture pressure > 150 bars
- Display format 4-place, 7-segment-LCD
- Display resolution 0.1 bar
- Switching state display 2x LED
- Ambient temperature 10 to +80 °C
- Fluid temperature -10 to +60 °C
- Service life 100x10⁶ pressure changes
- Pressure port G 1/8, stainless steel 1.4571
- Housing material aluminum
- Mounting position any
- Vibration resistance ~10 g/0 - 500 Hz
- EMC EN 50081-1, EN 50082-2

Deviation from upper limit of effective range

- Overall accuracy < ± 1%
- Switching point accuracy < ± 1%
- Linearity < 0.2% ± 1 Digit
- Temperature drift - zero point < ± 0.4%
- Temperature drift - span < ± 0.4%

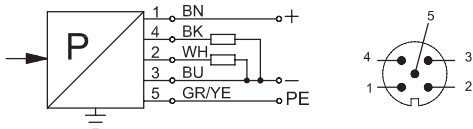
Electrical characteristics

- Rated input voltage 24 VDC
- Operating voltage 10 - 32 VDC
- Current consumption without load current < 50 mA
- Number of signal outputs 2
- Type of signal outputs PNP- transistor stages
- Loading capacity per output max. 500 mA
- Protection against polarity reversal, short circuits yes and overloads
- Electrical connection M12x1plug, 5-pole type

Programmable settings

- Switching point per output 0 - 40 bars
- Release point per output 0 - 40 bars
- Setting increment 0.2 bar steps
- Switching function per output NC or NO type
- Damping / filter time 5 ms - 0.64 s
- ON and OFF delay 0 - 20 s
- Pressure units bars, Psi, MPa
- Mode per output standard mode
hysteresis mode
window mode

Electrical connection

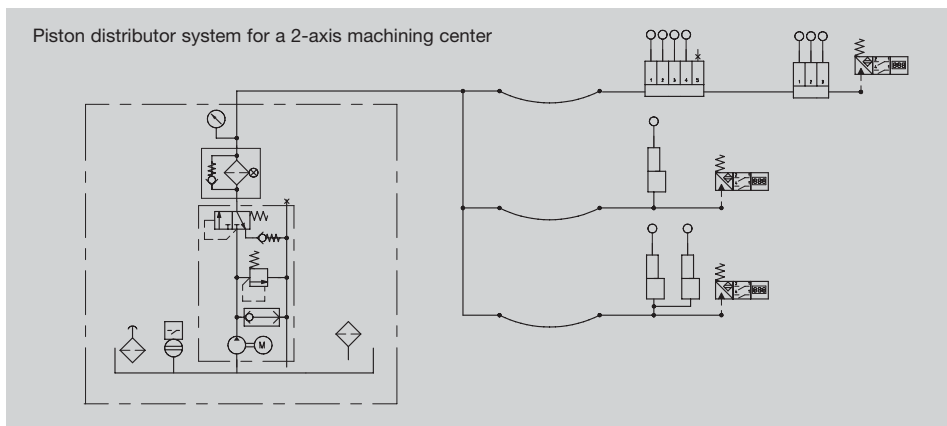


Pin	Function	Color coding *)
1	(+)	brown (BN)
2	Output 2	white (WH)
3	(-)	blue (BU)
4	Output 1	black (BK)
5	PE	green/yellow (GR/YE)

*) If a precut cable with socket is used (cf. accessories).

Accessories:

- Connection cable with socket (straight), 5-pole type, length 5 m, **Order No. DS-E.U3**
- Socket (angled), **Order No. 179-990-660**



Practical example

The piston distributors for the individual axes are connected by hoses (cf. example). It is advisable to install a pressure switch at the end of each branch line in order to have any hose defect signaled at an early point in time.