Electronic pressure switch
Group DS-EP-40-D-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 ............... 2 x LED
Ambient temperature ................. 10 to + 80 °C
Fluid temperature ................. –10 to + 60 °C
Service life ...................... 100 x 10⁶ pressure changes
EMC .................................. EN 50081-1, EN 50082-2

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 ............... M12 x 1 plug, 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

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.