KELLER

PROGRAMMABLE PRESSURE SWITCH / TRANSMITTER   PA-22 PS

USER SELECTED SWITCHING POINTS AND FUNCTIONS

The PA-22 PS is a compact programmable pressure switch; it also has an analog transmitter output signal (0,5…4,5 V). It will continuously monitor a process via the analog signal. The switch functions can be used to activate alarms or control relays at predetermined pressure levels.

There are two independent switches for Hi/Lo control functions. These are solid state and therefore not subject to wear. Outputs are selectable PNP or NPN (factory set; to be specified upon order). The optional dV-22 PP programmer (external supply) allows the user to change settings via two buttons and menu system. Alternatively, the programming unit is linked to a laptop/PC and can be used with KELLER's "Pressure Switch Console" software.

The following characteristics can be programmed for each switch output, either at our works upon order or by the user via dV-22 PP:

➡ Switching thresholds
➡ Hysteresis / window function
➡ Normally open / normally closed
➡ Switching delay

Pressure sequences can also be monitored and recorded on the PC for application diagnostic purposes using the dV-22 PP programmer unit and KELLER's Read30 software.

The PA-22 PS pressure switch was developed for applications in the automotive industry and is suitably compact and sturdy in design.

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Connection assignment M12:
- 1: +Vcc (8…40 VDC)
- 2: Switch Output 2
- 3: GND
- 4: Switch Output 1
- 5: Analog Output

PA-22 PS Pressure Switch

dV-22 PP Programming Unit (optional)

SPECIFICATIONS

Pressure Ranges absolute	4 bar to 400 bar
Overpressure	1,5 x pressure range
Error Band (0…80 °C) *	2 %FS
Operating Temperature	-40…125 °C
Measuring Interval	≈ 1 ms
Switch Delay	0…5 s (steps of 20 ms)
Supply	8…40 VDC
Analog Output	0,5…4,5 V, load resistance > 30 kΩ
Switch Outputs	2 x PNP/NPN selectable, max. load: 0,5 A
Smallest Resolution of Switch Points	1/820 FS (0,12 %FS)
Pressure Connection	G 1/4" with HEX22
Electrical Connection	M12, 5 Pol
Protection	IP 67
Width x Height	26 x 53 mm
Weight	≈ 60 g
Optional Accessories	Programmer dV-22 PP to program the pressure switch. The programmer is connected to the PC via converter cable K-107 or K-104B.

Configuration Program "Pressure Switch Console"

* Includes linearity, repeatability, hysteresis and temperature error. Does not include Zero stability.