

#### Actual issue see www.roemheld-group.com

#### Additional functions Break or make function selectable

Separately adjustable for both outputs.

# Adjust hysteresis

SP1

RP1

HNO

off

HNC on

off

function

Break function

SP1, SP2

RP1, RP2

adjustable.

HNO

HNC

A switching and a reset point can be set for each switching output. The output switches when the set switching point has been reached and switches back when the value falls below the set reset point.

# Application

Pressure switches provide an electrical switching command or signal for further work steps when a preset pressure value is reached or exceeded.

Main applications are pressure and limit value signals in hydraulics and pneumatics with high switching frequency and switching accuracy.

## Description

Easily adjustable electronic pressure switch in compact design with two wear-resistant transistor switching outputs.

The switching points are set via two push-buttons using the four-digit digital pressure display. A green or red backlight indicates the switching positions of the two outputs.

For optimum adaptation to the respective application, the device offers additional setting parameters, e.g. switching delay times and break/make function of the outputs (see additional functions).

## Important notes

The pressure switch must be screwed into the hexagon of the pressure connection with a wrench SW 27. With the rotatable connection adapter (accessory), the digital display can be rotated in the desired direction.

# **Advantages**

Minimum dimensions

2 switching outputs, max. operating pressure 250 and 600 bar

- Robust stainless steel measuring cell with strain gauge
- Two PNP transistor switching outputs
- Easy adjustment with 2 push-buttons
- Menu navigation as per VDMA 24574-1 Four-digit digital display, optionally in
- [bar], [MPa] or [psi]
- Continuous ACTUAL pressure display
- Accuracy  $\leq \pm 0.5$  % of the measuring range
- Multi-coloured switching display for both
- Many helpful additional functions

# Window function

FH1 +0,4% FS

Fl FL1 – 0,49

FN

or

off

FN

off

Application example

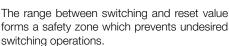
The window function monitors any pressure range.

An upper and a lower switching value can be entered for each switching output, which delimit the range.

The output switches when the pressure enters this range. When leaving this range, i.e. the reset value is reached, the output switches back.

Reset value Switching value

vitching value



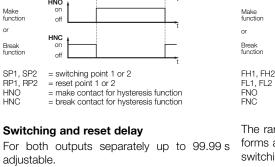
= upper switching value 1 or 2 appendix and a provide a solution of 2
bower switching value 1 or 2
make contact for window function
break contact for window function

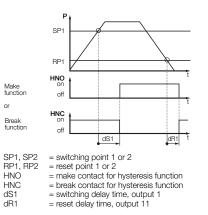
## Calming of the display value

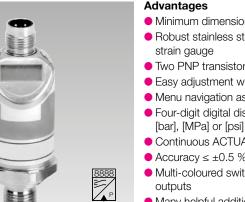
For pressure pulsation with switchable filter.

## **Programming lock**

Protection against unauthorized adjustment can be activated.



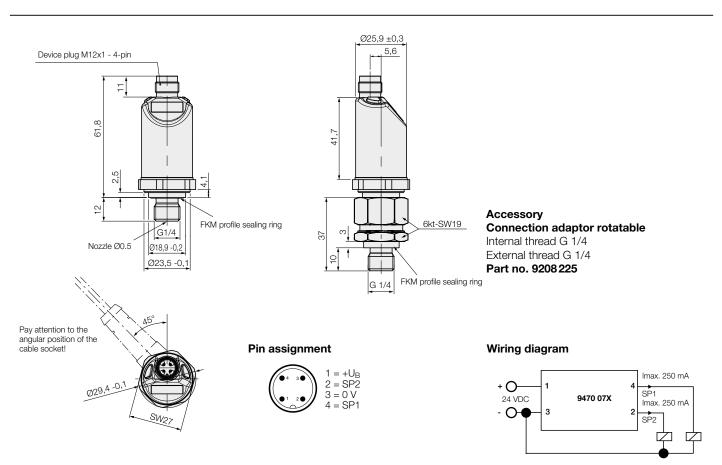






Pressure Switches

hydraulic-electronic signal converter



#### Input variables

Measuring ranges
Supply voltage
(as per UL specification)
Ripple
Power consumption max.
with inactive outputs

#### **Output variables**

LED display Switching outputs Max. switching current Switching cycles MTTFd Accuracy as per DIN 16086 Repeatability Response time

#### **Environmental conditions**

Range of operating temperature Compensated temperature range display readability Vibration resistance (0...500 Hz) Shock resistance (11 ms) Code class as per DIN EN 60529

#### Other variables

Hydraulic connection

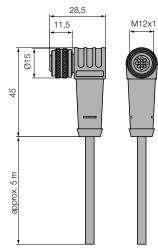
Recommended tightening torque Connector Sensor cell Weight, approx. Measuring range Overload range Part no. see part no. 10...32 V DC ≤ 5 % 0.535 A 35 mA

4-digit, 7 segments 2 PNP transistor switching outputs 250 mA per switching output > 100 million > 2 million h (228 years)  $\leq \pm 0.5 \%$  of measuring range  $\leq \pm 0.0 \%$  of measuring range < 10 ms

-25...+100 °C -25...+85 °C -15...+70 °C approx. 10 g approx. 50 g IP 67

G1/4 ISO 1179-2	
with 0.5 mm nozzle	
20 Nm	
stainless steel	
thin-film strain gauge	
0.07 kg	
2.5250 bar	6.0600 bai
500 bar	1000 bar
9740073	9740075





#### Cable socket M12x1 angled Shielded cable Cable length approx. 5 m 4 wires Lif9YH11YH 4x0.34 mm<sup>2</sup> Sheat Ø 5.1 mm

Part no. 3829282

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