

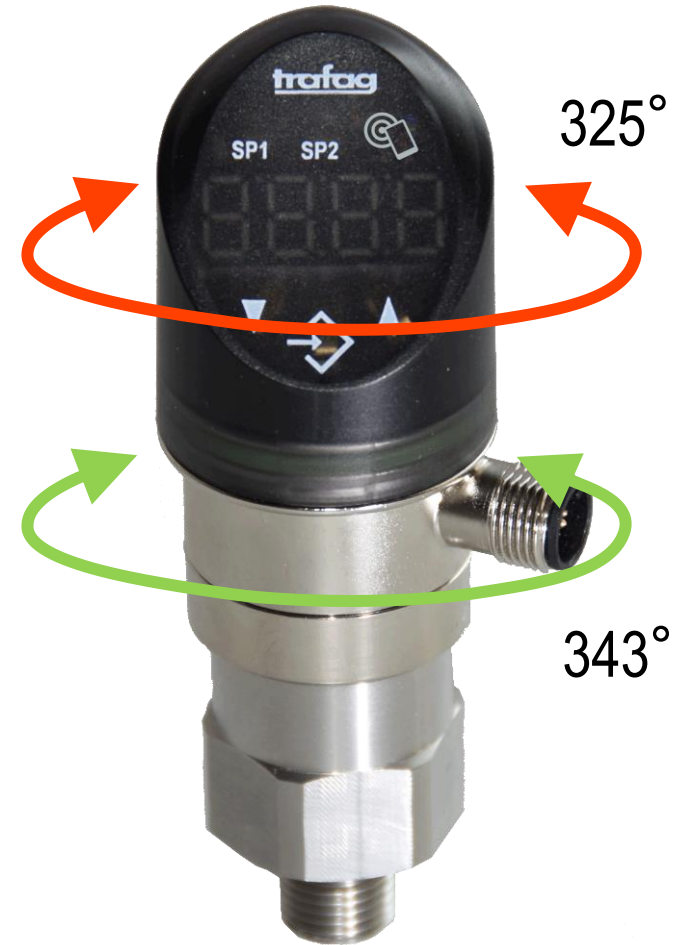
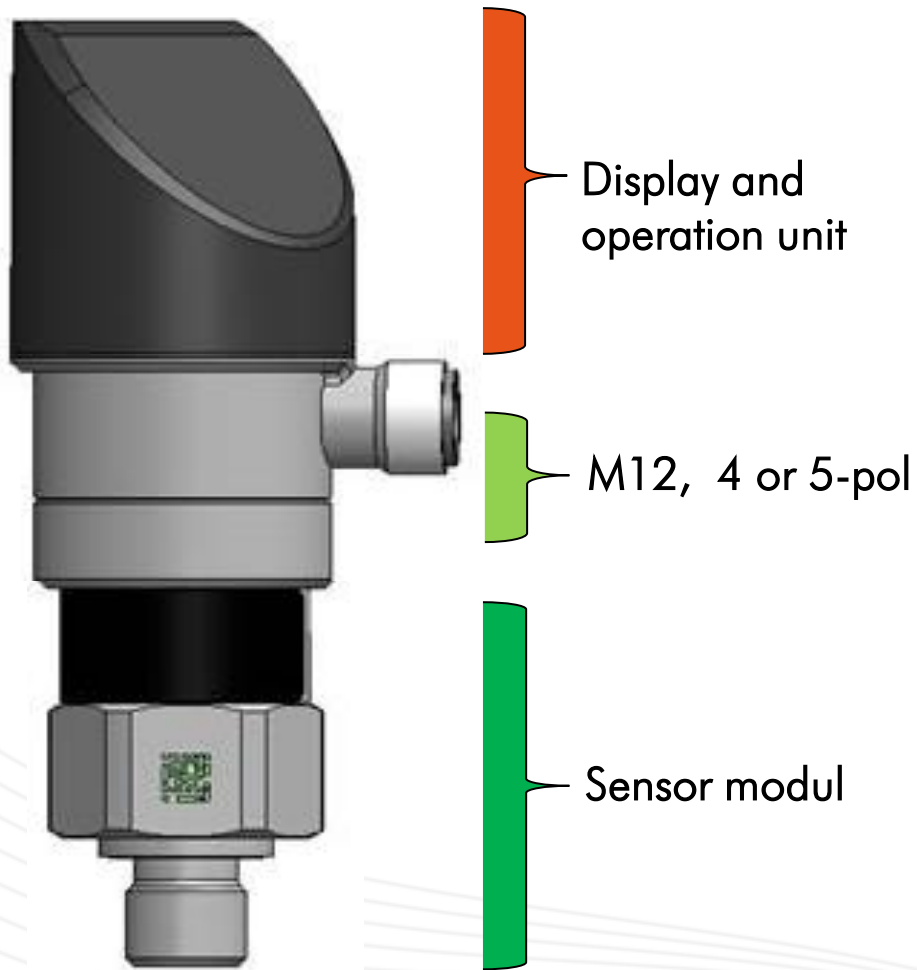
DPC 8380 PRESSURE SWITCH WITH DISPLAY

Content

- Electronic Pressure switch basics
- DPC 8380 Pressure Switch with Display
- Smartphone App life view



Device concept



Basic characteristics

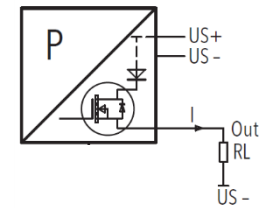
- Based on ECT, Ceramic Sensor
-1 ... 0 to 0 ... 100 bar
- Based on NAT, Thin-film-on-steel Sensor
0 ... 2.5 to 0 ... 600 bar
- Pressure sensor
 - Relative
 - Absolute
- Accuracy 0.5 %
- Material of the pressure connection
 - 1.4305
 - 1.4404/1.4435
 - 1.4462
 - Titan Grad 5



- 4 Digit LED Display, 3 operation buttons
 - Bar, MPa, kPa, psi, mWG, mmWG
- Housing:
 - steel + zinc die-cast + display housing in plastic
- Twistable display housing: 335°
display can be flipped by SW, 180°
- Twistable M12 connection: 343°
- IP67



- Adjustable range: 50 ... 100 % FS
- Analog output: 4 ... 20 mA, 0 ... 5 VDC, 1...6 VDC, 0 ... 10 VDC
- Switchable analogue output: V / mA
- 2 transistor outputs PNP; max 0.5 A each output
- Menu according VDMA 24574-1
- Parametrizing via NFC Smartphone App,
also without power supply
- Integrated simple pressure logging,
data download via Smartphone app



USP

USP

- Power supply: 15...30 VDC $I_{\text{supply}}: \leq 30 \text{ mA}$
- Inverse-polarity protection, short-circuit strenght
- Electrical connection **M12 x 1**

5-pin

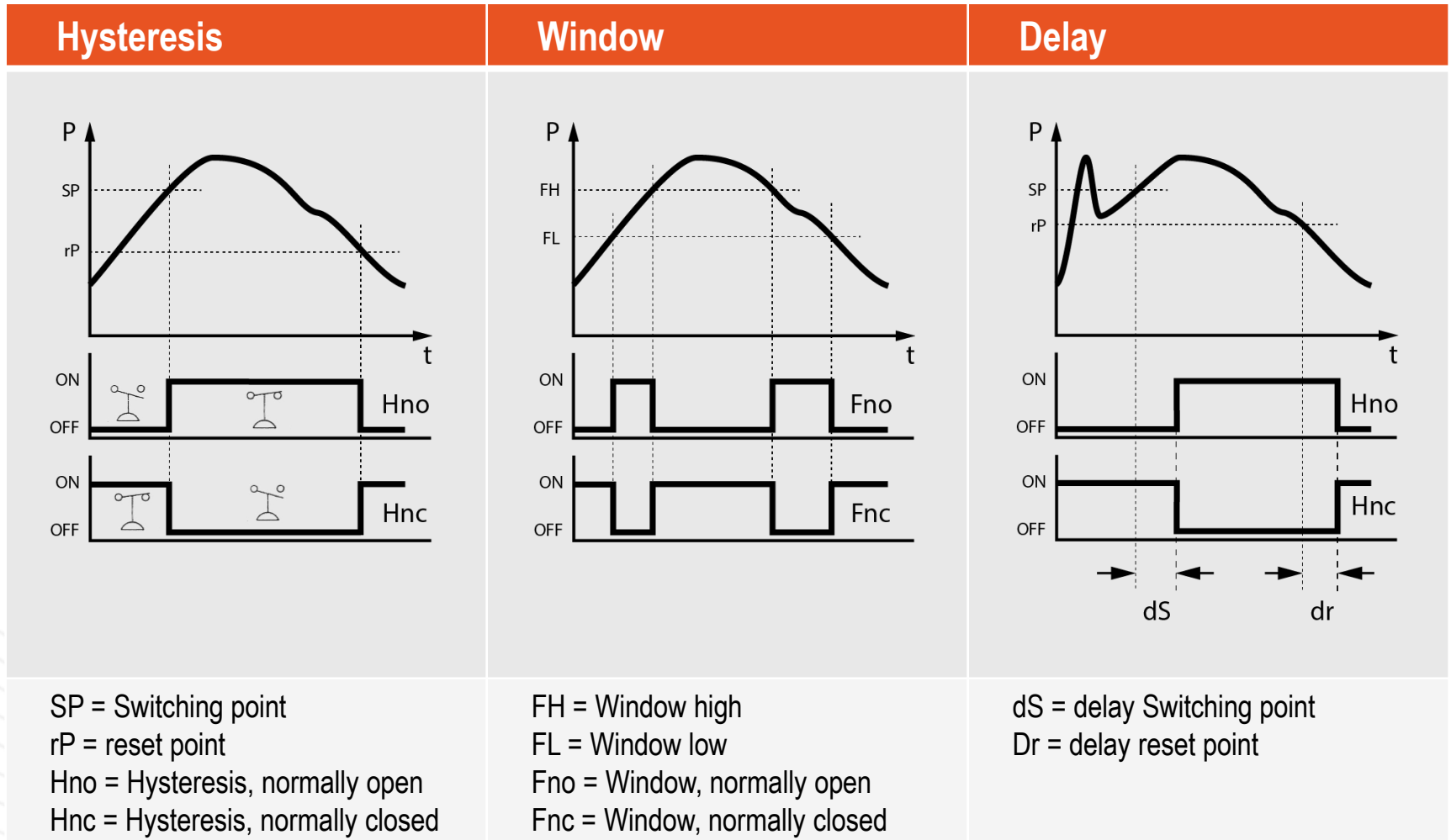
| Code | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 |
|------|-------|--------|-------|-------|--------|
| P1 | U+ | Analog | U- | SP1 | SP2 |
| P2 | U+ | SP2 | U- | SP1 | Analog |

4-pin

| Code | Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|------|-------|--------|-------|-------|
| P3 | U+ | Analog | U- | SP1 |
| P4 | U+ | SP2 | U- | SP1 |

- P3 and P4 according to VDMA 24574-1
- Shield recommended

Switching Output Function



Operating and parameterization concept

Operating Menu

The Operating Menu includes the following items:

- Base Display [→]
- SP1 [→]
- SP2 [→]
- EF [→]
- dS1 [→]
- dr1 [→]
- dS2 [→]
- dr2 [→]
- Ou1 [→]
- Ou2 [→]
- uni [→]
- Lo [→]
- Hi [→]
- HLE [→]
- DioA [→]
- P_zP [→]
- P_EP [→]
- o_nP [→]
- o_EP [→]
- dAA [→]
- dSr [→]
- dIS [→]
- DuPd [→]
- dIA [→]
- CodE [→]

NFC
also without power supply

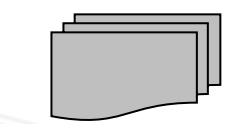


Parameter-set
Log data

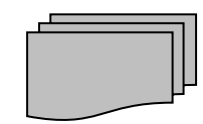
| | |
|--------------------------------|----------|
| Parameter-set | Logger |
| Switch points | Log data |
| More parameters Expert mode | |

save

save





Parameter-sets



Parameter-sets

Parameters

- Switching point, reset point Hysteresis / Window
- Switching delay time
- Switching function NO  NC 
- Pressure unit
- Analog output type
- Pressure end point (adjustable range)
- Damping for the analog outputs
- Display rotate
- Display mode
- Display update rate
- Access code definition
- Reset of highest / lowest measured pressure