Safety pressure sensor DAIL



The DAIL fulfils the requirements of EN 1114-1 for overpressure protection of extrusion lines and offers maximum comfort of operation.

The auto-zero function enables calibration directly on the device or from the observation point/controller. On the output side, the melt pressure transmitter provides a switch output in addition to the analog signal which enables switching off the machine in case of overpressure according to EN 13849-1, PL=c.

- Technical specifications
- Pressure range 0...50 to 0...2000 bar Accuracy incl. linearity, hysterisis, 0,15 % , 0,25 % or 0,5 % and reproducibility in % to full scale Reproducibility in % to full scale ± 0,1 % Membrane coating G-Coating Resolution Max. pressure overload without 2 x range up to 1000 bar (14,500 psi) influence on operating value 1,5 x pressure range over 1000 bar (14,500 psi) Bridge resistance 3500 Ohm Wheatstone Bridge 15...32 V DC Supply voltage Output signal V oder mA Transmission medium NTX™ as standard 1/2"20 UNF or M18 x 1,5 Process connection 80 % Calibration point >1000 MOhm at 50 V Insulation resistance 300 °C NTX (572 °F) Max. temperature at diaphragm 400 °C HG (750 °F) 500 °C NAK (932 °F) Max. temperature at terminal head during - 40... +85 °C ± 0,02 bar / °C * Zero point deviation against diaphragm temperature changes at the diaphragm %/°C(%/1,8°F) Zero point deviation against temperature chan- $\pm 0.003 \%$ ges at terminal head in % / ° C (% / 1,8 ° F) Ingress protection housing IP 65 / Ingress protection connector IP 55 Max torque 1/2"20 UNF 30 Nm (22 lbf ft)
- Switch output for overpressure protection
- Switch-off pressure freely selectable
- · Analog output mA or V
- Performance Level c according to EN13849-1
- TÜV certified
- G-coating to counteract adhesive materials
- Compatible with common OEM sensors
- Longlife design

Product variations (examples)



Auto-zero Function

As an option available with optical auto-zero release in the sensor head



Special diaphragm coatingSpecial coating options available



Integrated temperature measurement

As an option (DTAIL series)

M18 x 1,5 50 Nm (32 lbf ft)

^{*} With standard diaphragm, transmission medium NTX™ and 1/2″20 UNF. Modifications can differ.