

Pressure Sensor with Thread Connection

Application

- hydrostatic level measurement of vessels and tanks
- precise pressure measurement in vessels and pipes

Application Examples

- pressure monitoring
- level measurement with **DAN-...**, linearization and evaluation with **PEM-DD** (6 standard styles, 1 style programmable)

Process Connection

- for all standard thread connections (M12x1,5; G1/4"; G1/2"; M22x1,5) and special threads possible
- sensor completely made of stainless steel
- protection class IP69K

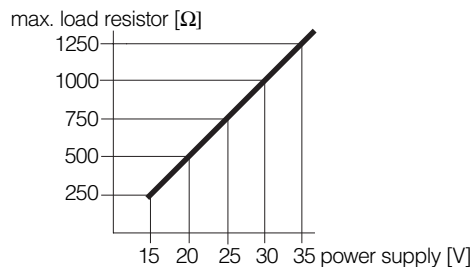
Features

- robuste design
- piezo-resistive measurement cell
- integrated 2-wire measurement transducer 4-20mA

Options / Accessories

- special measurement ranges
- absolute pressure measuring
- electrical connection via M12-plug-in
- cable for M12-plug-in ex work
- level measurement device **PEM-DD** with linearization

Diagram load resistor



DAN-047 / M12

Specification

Pressure ranges	standard	0,4 / 0,8 / 1,2 / 2,0 5,0 / 10,0 bar rel.	Temperature ranges	ambient	-20...+60°C
Overload stability	factor	2 of full scale minimum 2 bar		process	-40...+100°C
Process connection	thread	M12x1,5; M22x1,5; G1/4"; G1/2";		compensated	0...70°C
Materials	connector head	SS (1.4305)	Linearity	variation	<±0,2% of full scale
	thread connection	SS (1.4571)	Accuracy	zero	4mA ±0,15mA
	membrane	SS (1.4435)		span	16mA ±0,1mA
Protection class		IP69K	Temperature drift	zero typical	0,02% o. f. scale / K
				span typical	0,02% o. f. scale / K
			Electr. connection	cable entry	PG (M16x1,5)2x1,5mm ²
				optional	M12-plug-in SS, V2A
			Output	current loop	4-20mA
				optional	0-10V; 0-20mA
			Power supply		12...36V DC
			Load resistor	max.	200...1250Ω; s. diagr.

Order Code

Type	Process connection	Range	Pressure cell	Electrical connection
DAN-045	M12x1,5	0,4 0...0,4bar	REL relative	X cable entry M16x1,5
DAN-046	G1/4"	0,8 0...0,8bar	ABS absolute	M12 M12-plug
DAN-047	G1/2"	1,2 0...1,2bar		
DAN-048	M22x1,5	2,0 0...2,0bar		
DAN-049	special thread	5,0 0...5,0bar 10,0 0...10,0bar [end value] special		

Order example: **DAN-045 / 2,0 REL / M12**

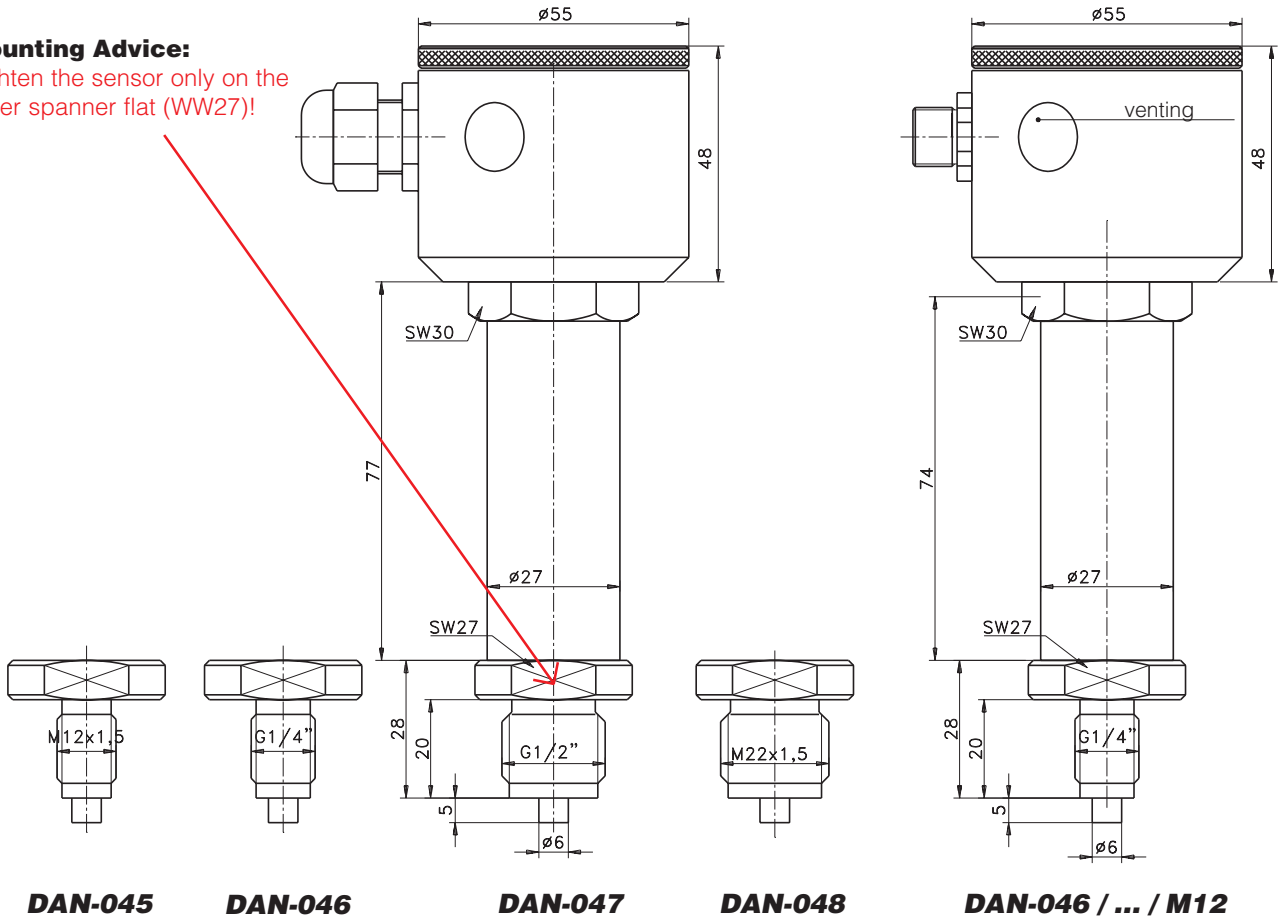
Attention:

Avoid pressure strikes, because these high overloads can damage the sensor!

Dimensioned Drawings

Mounting Advice:

Tighten the sensor only on the lower spanner flat (WW27)!



DAN-045

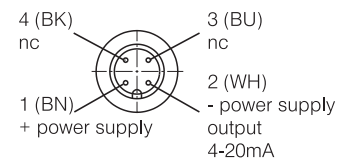
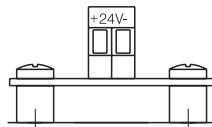
DAN-046

DAN-047

DAN-048

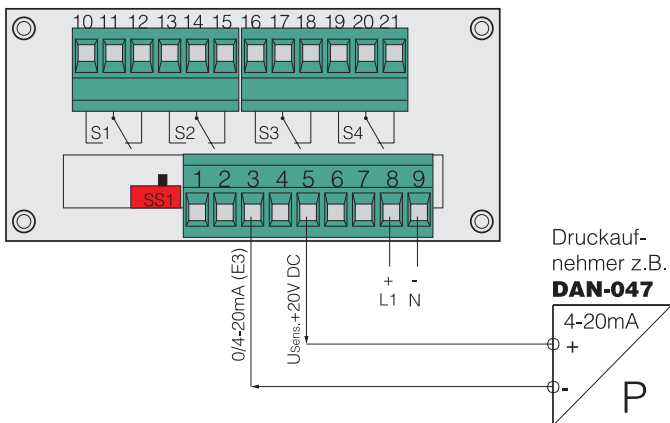
DAN-046 / ... / M12

Electrical Connection



Connection Example with Digital Indicator

e.g. DPM-gs-4gw



Connection Example with PLC

