

Differential pressure- Pressure sensor with internal diaphragm

Accuracy: 1,0 %

**Standard output: 4...20 mA; 3-wire system
or 0...10 VDC; 3-wire system
or / and with 2 alarm contacts**

Characteristics

Small mounting expenditure, because of the connection of positive and negative pressurized connection by wire.
Highly resistant to shock and vibration.
Contact element and dead spot programmable with storage of min/max values
Plus- / Minus-pressure connection interchangeable by programming.

Application

Used for all gaseous and liquid pressure media, witch are not tend to crystallise, highly viscous or attack the measuring material.

Winner of the Innovation award 2006!
Patent-no.: 10 2005 043 752



Instrument range

Environmental engineering, filter monitoring
Mechanical / plant engineering

Ausführung	internal diaphragm	front flush diaphragm
Typ	SDD-30	SDD-40
Accuracy	1,0 % of full scale value	
Connection thread	2 x G 1/2, stainless steel 1.4571	2 x G 1/2 B front flush
Display	LCD blue-white, 2 lines back-luminous	
Ranges in mbar	0... 40, 60, 100, 160, 250, 400, 600	
Ranges in bar	0... 1, 1,6, 2,5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400	
max. static pressure	10 x ranges	
Sensor element	stainless steel, to 160 mbar piezoresistiv, from 250 mbar thin film technology welded	
Case	Aluminium, anodised	
Wetted parts	CrNi-steel	
Pressurized conn.	2 x SW 27, CrNi-steel	
Electrical connection	junction box M 12x1, 4-wire	
Power supply	14...30 VDC	
Contact output	2 change over relays, 6 A 250 V AC, but min. 12 V 10 mA	
Current consumption	max. 70 mA	
Permissible load	current 2-wire: $R_{max} = ((U_B - U_{B_{min}}) / 0,02) \text{ Ohm}$, voltage: $R_{min} = 10 \text{ K Ohm}$	
Short circiut stab.	S + against U -	
Polarisation stab.	U + against U -	
CE-conformity	according to pressure gauge standard - 97/23/EG EMV-standard - disturbance proof (industrial area) according to EN 61 326	
Lifetime	> 50 Millions of endurance cycles	
Temp. comp. Range	-20...80 °C	
Protection type	IP 65 according to EN 60529 / IEC 529	
Temperatures	Medium: -30°C up to 100°C, ambient temperatur: -20°C bis 80°C	
Weight	0,8 kg	

SUCHY MESSTECHNIK

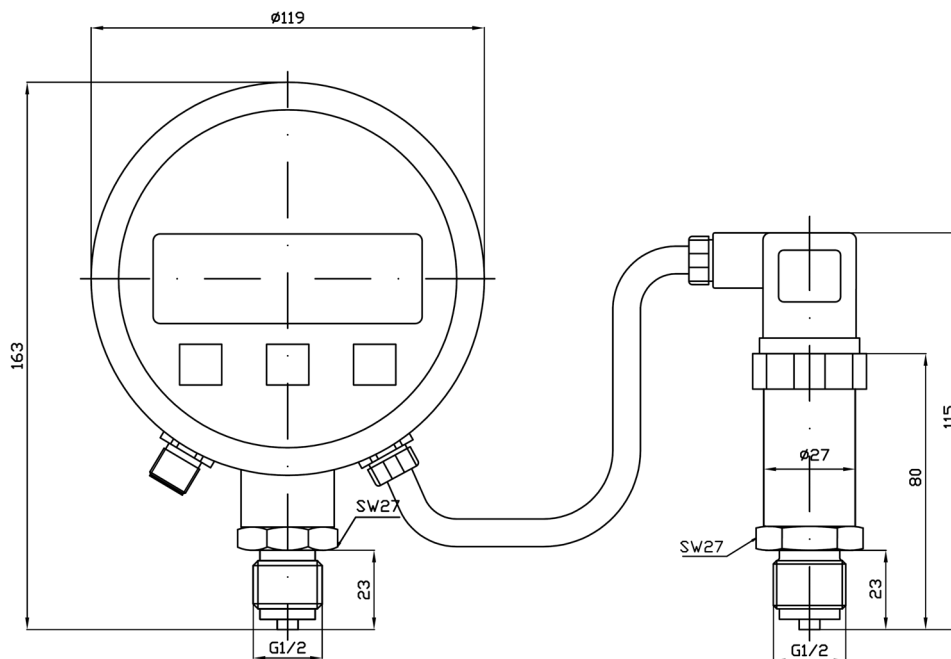
Garnsdorfer Hauptstraße 116, 09244 Lichtenau, Tel.: 037208/88 42-0, Fax: 037208/88 42-12
e-Mail: suchy@suchy-messtechnik.de

Data sheet SD 301 02
sheet no. 1

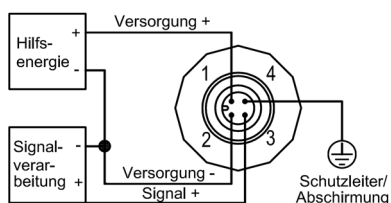
Dimensions and Design

Typ SDD-30

Standard version
Male plug M 12 x 1, 4-pin

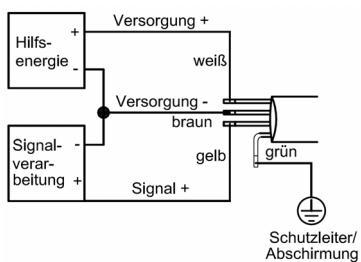


3-wire system
4...20 mA and 0...5/10 V



optional
Cable outlet with 2 meter PVC-cable, shielded

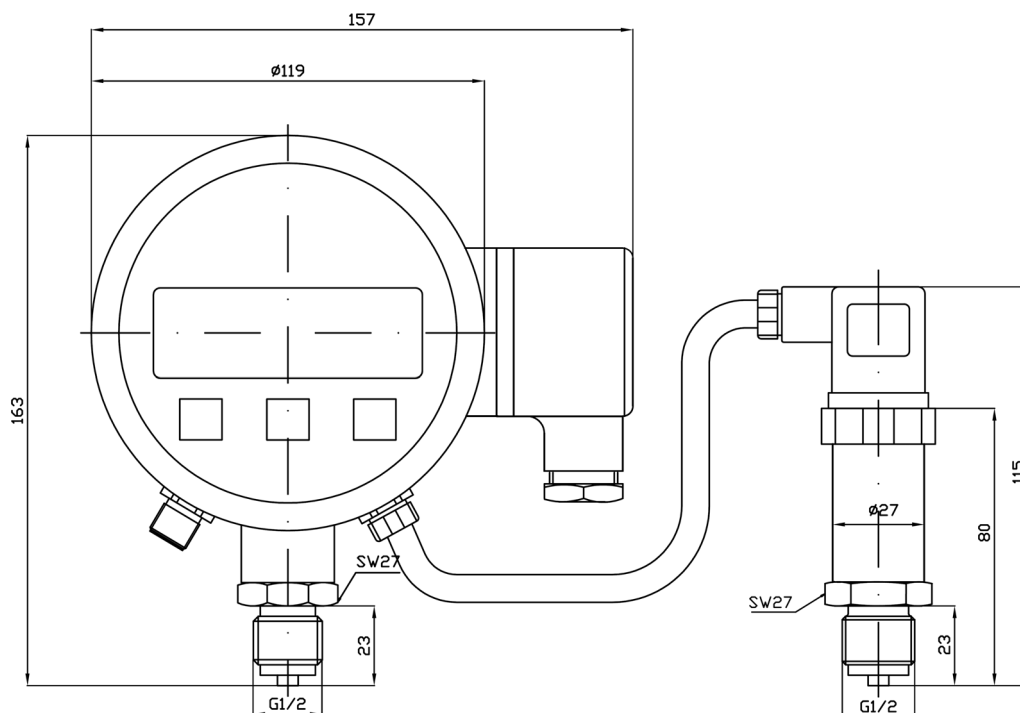
3-wire system
4...20 mA and 0...5/10 V



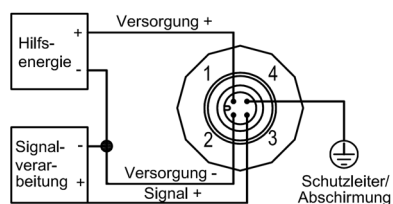
Dimensions and Design

Typ SDD-30

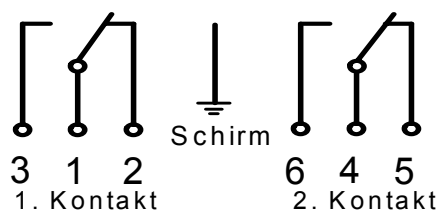
Standard version
Male plug M 12 x 1, 4-pin
optionally with one or two switching contacts



3-wire system 4...20 mA and 0...5/10 V



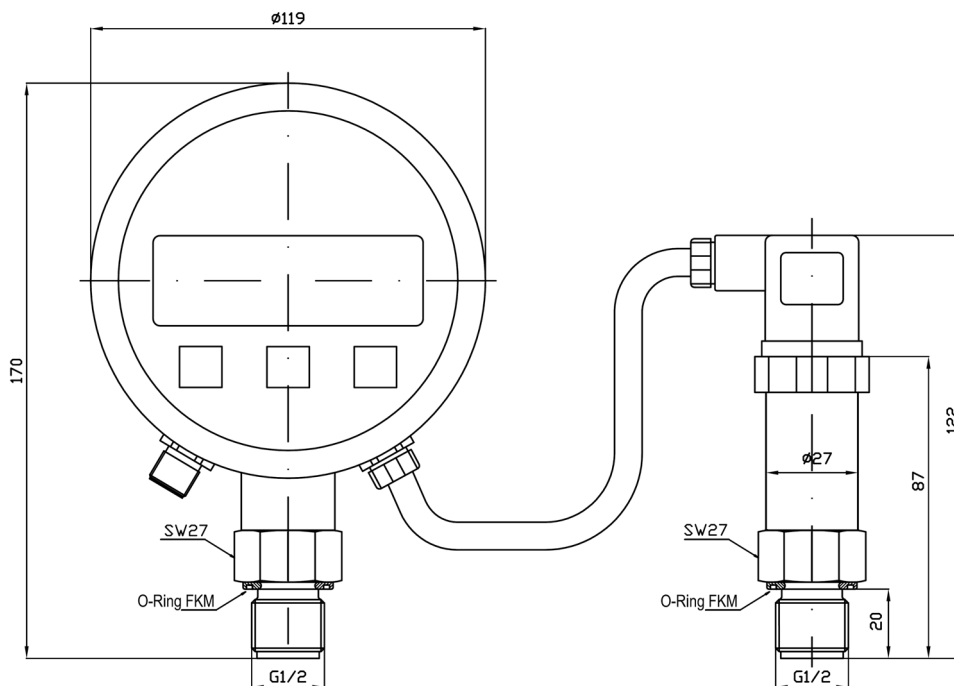
Connection of the switch contacts



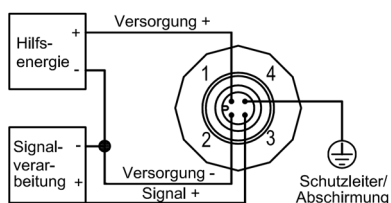
Dimensions and Design

Typ SDD-40

Standard version
Male plug M 12 x 1, 4-pin

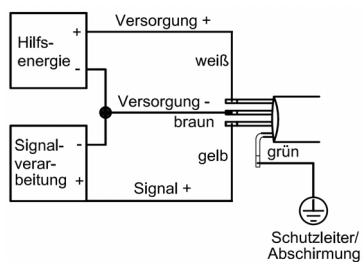


3-wire system
4...20 mA and 0...5/10 V



optional
Cable outlet with 2 meter PVC-cable, shielded

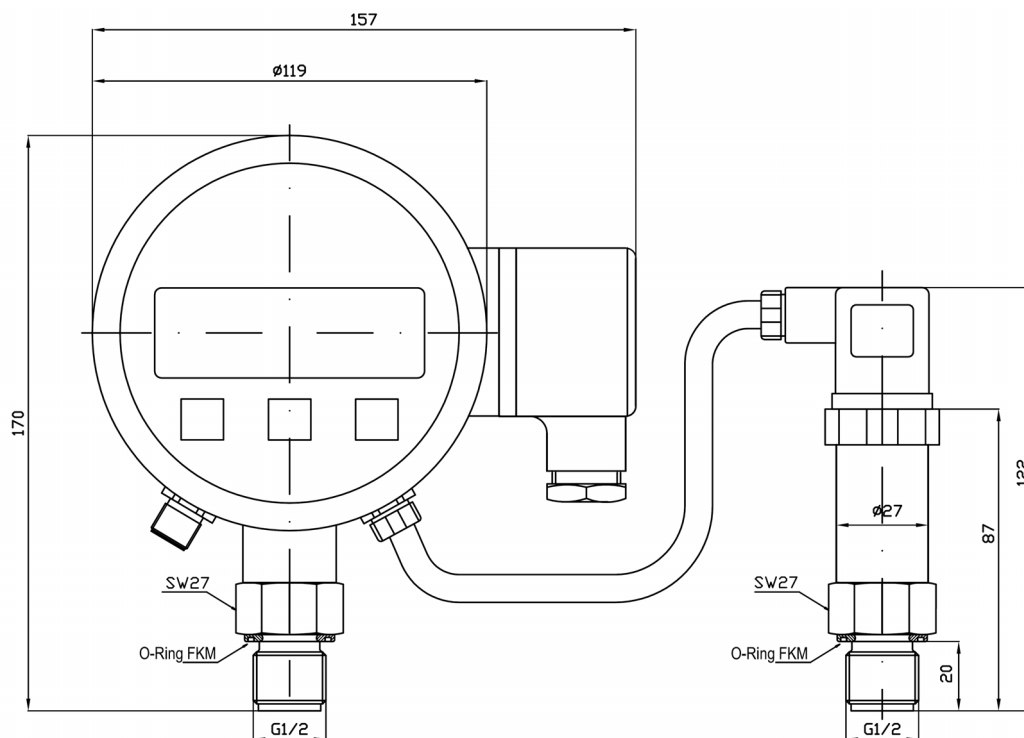
3-wire system
4...20 mA and 0...5/10 V



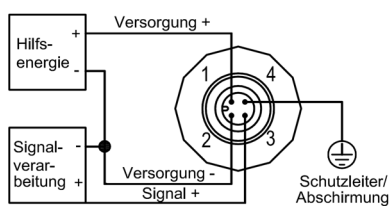
Dimensions and Design

Typ SDD-40

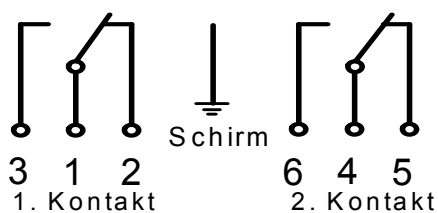
Standard version
Male plug M 12 x 1, 4-pin
optionally with one or two switching contacts



3-wire system
4...20 mA and 0...5/10 V



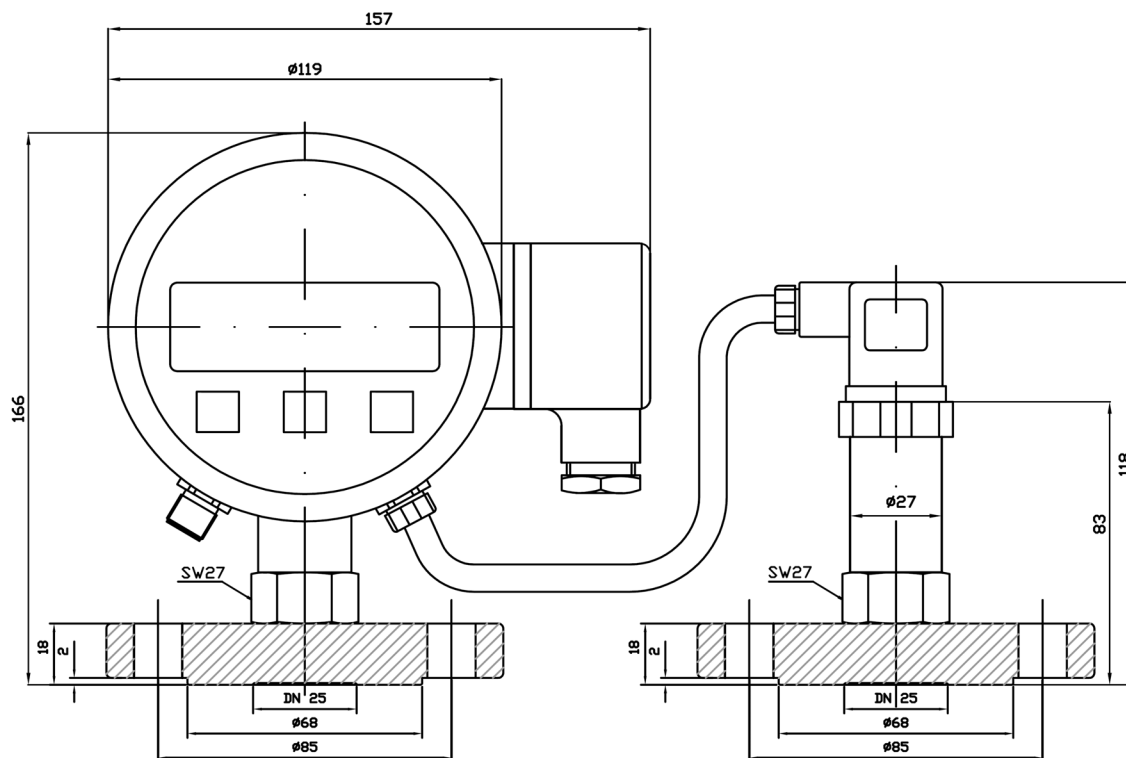
Connection of the switch contacts



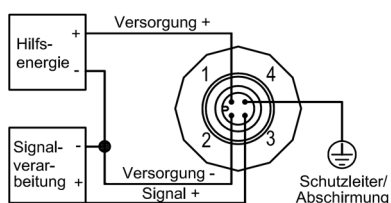
Dimensions and Design

Typ SDD-40

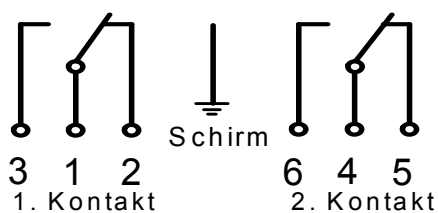
optionally with one or two switching contacts
optional DIN flange connection DN 25, PN 40



3-wire system
4...20 mA and 0...5/10 V



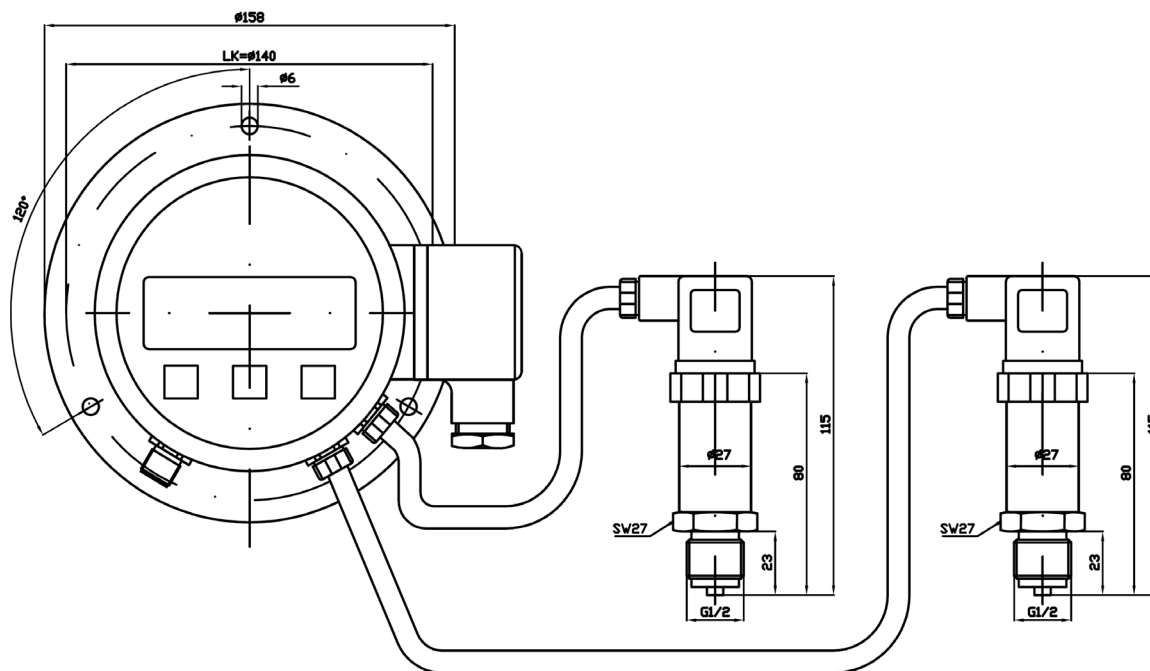
Connection of the switch contacts



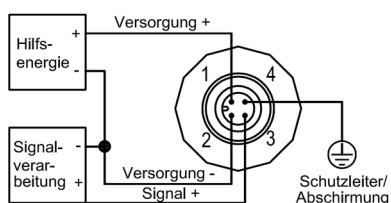
Dimensions and Design

Typ SDD-30 und SDD-40

optional with two external pressure sensors
and back flange



3-wire system
4...20 mA and 0...5/10 V



Connection of the switch contacts

