



# 18.601

## OEM Pressure Transmitter Low Pressure

- ▶ for universal usage
- ▶ piezoresistive stainless steel sensor
- ▶ output signal  
4 ... 20 mA / 2-wire
- ▶ nominal pressure ranges  
from 0 ... 100 mbar  
up to 0 ... 1 bar



# 18.601

## OEM Pressure Transmitter

## Technical Data

Input pressure range						
Nominal pressure gauge [bar]		0.1	0.25	0.4	0.6	1
Permissible overpressure [bar]		0.5	1	1	3	3

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / $V_s = 12 \dots 36 V_{DC}$
Option	3-wire: 0 ... 10 V (on request)

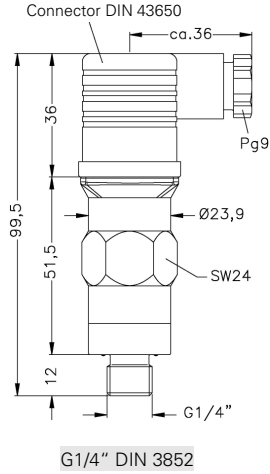
Performance		
Accuracy	IEC 60770: $\leq \pm 1 \% \text{ FSO}$	BFSL: $\leq \pm 0.5 \% \text{ FSO}$
Permissible load	current 2-wire: $R_{max} = [(V_s - V_{smin}) / 0.02] \Omega$	
Influence effects	supply: 0.05 % FSO / 10 V / load: 0.05 % FSO / k $\Omega$	

Thermal error (Offset and Span)	
Tolerance band	$\leq \pm 1 \% \text{ FSO}$
TC, average	$\pm 0.3 \% \text{ FSO} / 10 \text{ K}$
in compensated range	0 ... 40 °C

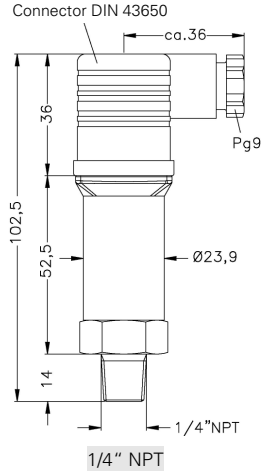
Permissible temperatures	
Medium	-25 ... 85 °C
Electronics / environment	-25 ... 85 °C
Storage	-40 ... 85 °C

### Mechanical connection

#### Standard

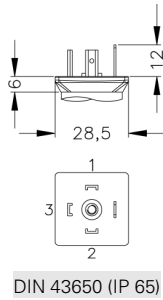


#### Option

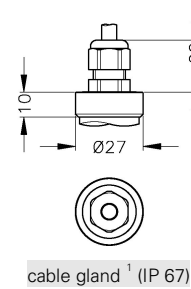
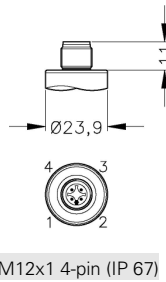


### Electrical connection

#### Standard



#### Options



### Materials

Pressure port	stainless steel 1.4305 (303)
Housing	stainless steel 1.4301 (304)
Seals	FKM
Diaphragm	stainless steel 1.4435 (316L)

### Miscellaneous

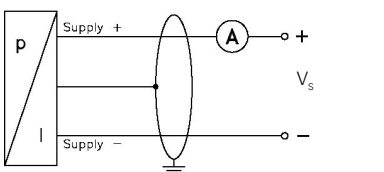
Suitable for following media	water, oil, gases, low aggressive media
Weight	approx. 75 g
Media wetted parts	pressure port, seals, diaphragm

### Pin configuration

Electrical connection		DIN 43650	M12x1 (4-pin)	cable colours (DIN 47100)
2-wire-system	Supply +	1	1	white
	Supply -	2	2	brown
	Ground	ground pin	4	yellow / green (shield)

### Wiring diagram

2-wire-system (current)



<sup>1</sup> different cable types and lengths available; standard: 2m PVC cable without ventilation tube, optionally cable with ventilation tube

