

CCE-18.600G



- pressure transmitter
- without media isolation
- nominal pressure: from 0...100mbar up to 0...6 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10V
- stainless steel / silicon sensor
- accuracy 0.5 % span



PREFERRED AREAS OF USE ARE



Plant and Machine Engineering



Compressed air network
General mechanical engineering

TECHNICAL DATA

Input pressure range											
Nominal pressure gauge	[bar]	-1 ... 0	0.1	0.25	0.4	0.6	1	1.6	2.5	4	6
Overpressure	[bar]	3	0.5	1	1	3	3	6	10	10	20
Burst pressure	[bar]	5	1,5	3	3	3	7,5	7,5	15	25	25

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / $V_S = 8 \dots 32 V_{DC}$
Option	3-wire: 0 ... 10 V / $V_S = 14 \dots 30 V_{DC}$
	3-wire ratiometric: 10...90 % of V_S / $V_S = 2.7 \dots 5 V_{DC}$

Performance	
Accuracy ¹	± 0.5 % span
Permissible load	2-wire: $R_{max} = [(V_S - V_{Smin}) / 0.02 A] W$ 3-wire: $R_{min} = 10 kW$
Influence effects	supply: 0.05 % span / 10 V load: 0.05 % span / kW
Response time	2-wire: 10 msec 3-wire: 3 msec
Long term stability	± 0,2 % span / year at reference conditions
Measuring rate	1 kHz

¹ accuracy according to EN IEC 62828-2 – limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span)			
Nominal pressure P_N	[bar]	-1 ... 0	0.4
Tolerance band	[% span]	± 1	± 1
in compensated range	[°C]	0 ... 70	
			-20 ... 85

Permissible temperatures			
Permissible temperatures	medium: -25 ... 125 °C	electronics / environment: -25 ... 85 °C	storage: -40 ... 85 °C

Electrical protection	
Short-circuit protection	permanent
Reverse polarity protection	no damage, but also no function
Electromagnetic compatibility	emission and immunity according to EN 61326

Mechanical stability	
Vibration	10 g, 25 Hz ... 2 kHz according to DIN EN 60068-2-6
Shock	100 g / 11 msec according to DIN EN 60068-2-27

Materials	
Pressure port / housing	stainless steel 1.4301 (304)
Seals	FKM
Sensor	stainless steel 1.4404 (316L), silicon, glass, epoxy or RTV
Media wetted parts	pressure port, seals, sensor

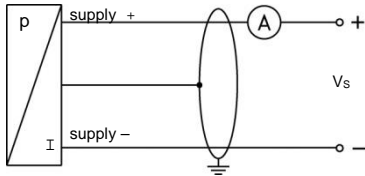


Miscellaneous	
Weight	approx. 120 g
Permissible media	pressurized air, non-aggressive gases
Current consumption	2-wire: max. 25 mA 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA)
Operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU

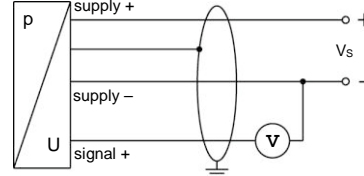
ELECTRICAL CONNECTION

Wiring diagrams

2-wire-system (current)

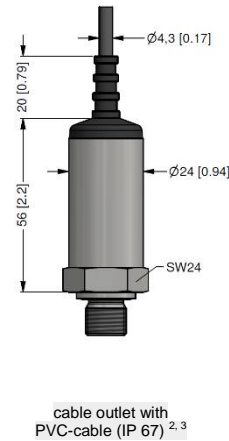
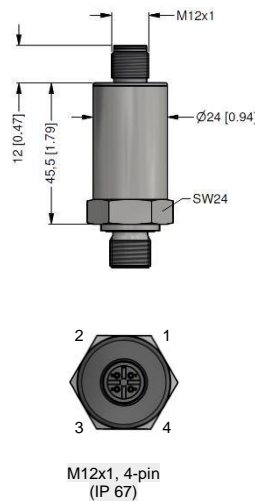
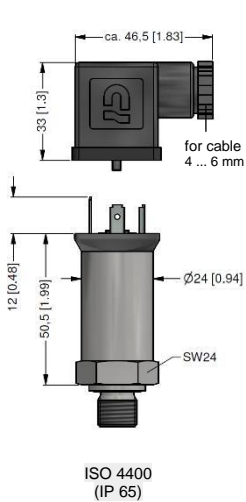


3-wire-system (voltage)



Pin configuration

Electrical connections	ISO 4400	M12x1 (4-pin), metal	cable colour (DIN 47100)
Supply +	1	1	wh (white)
Supply -	2	2	bn (brown)
Signal + (for 3-wire)	3	3	gn (green)
Shield	ground pin \oplus	4	ye/gn (yellow / green)

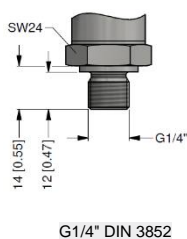


² standard: 2 m PVC cable without ventilation tube (permissible temperatur: -5 ... 70°C)

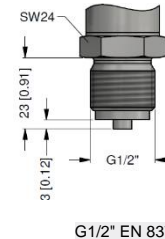
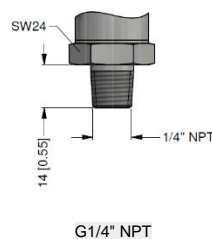
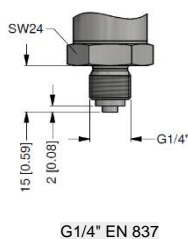
³ different cable types and lengths available, permissible temperatur depends on kind of cable

MECHANICAL CONNECTION

standard



option 4



⁴ other mechanical connections on request



ORDER CODE

CCE-18.600G- - R - - - - -

Input [bar]										
0 ... 0,1	1	0	0	0						
0 ... 0,25	2	5	0	0						
0 ... 0,4	4	0	0	0						
0 ... 0,6	6	0	0	0						
0 ... 1	1	0	0	1						
0 ... 1,6	1	6	0	1						
0 ... 2,5	2	5	0	1						
0 ... 4	4	0	0	1						
0 ... 6	6	0	0	1						
-1...0	X	1	0	2						
Customer	9	9	9	9						
Customer underpressure	X	X	X	X						
Output										
4 ... 20 mA / 2-wire					1					
0 ... 10 V / 3-wire					3					
Customer					9					
Accuracy										
0,50%					5					
0,5 % including Calibration Certificate					T					
1 % (underpressure ranges)					8					
Table of measured values for accuracy 0,5 %					N					
Customer					9					
Electrical connection										
Connector ISO 4400 (IP 65) - plug included					1	0	0			
Connector ISO 4400 (IP 65) - without plug					1	0	3			
Cable gland PG7 / cable length specify (IP 67)					4	0	0			
+ PVC cable / 1 m										
Connector M12 x 1, 4-pin (IP 67) - metal - plug included					M	1	0			
Connector M12 x 1, 4-pin (IP 67) - metal - without plug					M	1	H			
Cable outlet / cable length specify (IP 67) ¹					T	A	0			
+ PVC cable / 1 m										
Customer					9	9	9			
Mechanical connection										
G 1/2" EN 837						2	0	0		
G 1/4" DIN 3852						3	0	0		
G 1/4" EN 837						4	0	0		
1/4" NPT						N	4	0		
Customer						9	9	9		
Seals										
Viton (FKM)								1		
Customer								9		
Special version										
Standard								0	0	0
Customer								9	9	9

1 - cable without through capillary (permissible temperature -5 ... +70°C)

Manufacturer reserves the right to change sensor specifications without further notice.

