



CCA-P-334

- industrial pressure transmitter for high pressure
- nominal pressure: from 0...600 bar up to 0...2200 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10 V
- thinfilm sensor
- accuracy 0.35 % span
- extremely robust and excellent long-term stability
- pressure sensor welded
- optionally: pressure port M20 x 1.5 or 9/16 UNF, adjustability of span and offset, different kinds of electrical connections



The industrial pressure transmitter **CCA-P-334** has been especially designed for use in hydraulic systems up to 2200 bar. The base element of CCA-P-334 is a thinfilm sensor, that is welded with the pressure port and meets high demands of and reliability.

All of characteristics and the excellent mesurement data of CCA-P-334 as well as distinguished offset stability offer a pressure transmitter with easy handling, reliability and robustness for hydraulic user.

The CCA-P-334 is deliverable with standard HP connections.

PREFERRED AREAS OF USE ARE



Plant and machine engineering



Commercial vehicles and mobile hydraulics

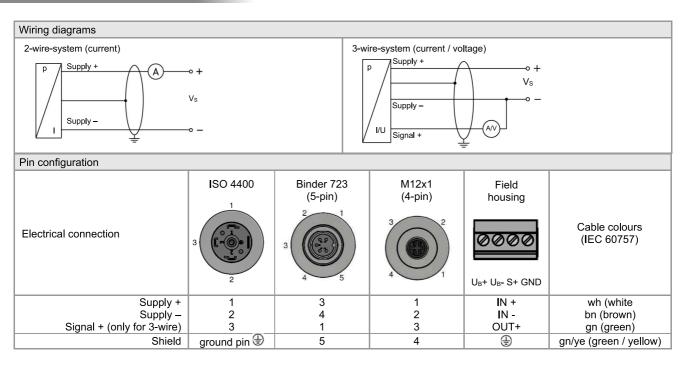
TECHNICAL DATA

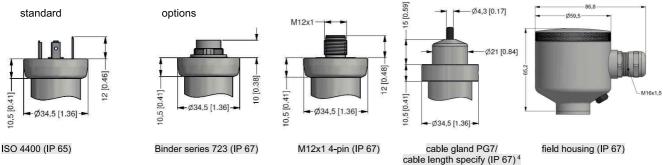
Input pressure range								
Nominal pressure gauge	[bar]	600 ¹	1000	1600	2000	2200		
Overpressure	[bar]	800	1400	2200	2800	2800		
Burst pressure ≥	[bar]	3000	4000	6000	6000	6000		
¹ only available with pressure po	ort G1/2" I	EN 837						
Output signal / Supply								
Standard		2-wire: 4 20 mA / V _S = 12 36 V _{DC}						
Option 3-wire		3-wire: 010 V / V _S = 14 30 V _{DC}						
Performance								
Accuracy		≤ ± 0.35 % span I E	C 60770 ²					
Permissible load		current 2-wire: $R_{max} = [(V_S - V_S min) / 0.02 A] \Omega$						
		voltage 3-wire: $R_{min} = 10 \text{ k}\Omega$						
Influence effects		supply: 0.05% span / 10 V load: 0.05% span / $k\Omega$						
Long term stability		≤ ± 0.2 % span / year						
Response time		< 5 msec						
Adjustability ³					the nominal pressure	range, please sel-		
			ial version in the ord					
² accuracy according to EN IEC	62828-2-	- limit point adjustment	(non-linearity, hysteres	s, repeatability)				
³ adjustable version is not possib				g and cable outlet				
Thermal effects (Offset an	d Span)	•						
Thermal error		≤ ± 0.25 % span / 1		sated range -20 8				
Permissible temperatures		medium: -40 140	°C electronics	/ environment: -40	85 °C stora	age: -40 100 °C		
Electrical protection								
Short-circuit protection		permanent						
Reverse polarity protection		no damage, but also no function						
Electromagnetic compatibilit	ty	emission and immunity according to EN 61326						
Mechanical stability								
Vibration		10 g RMS (20 2000 Hz)						
Shock		100 g / 11 msec.						
Materials		-						
Pressure port		stainless steel 1.4542 (17-4 PH)						
Housing		standard: stainless steel 1.4404 (316L)						
		field housing: stai	nless steel 1.4404 (3	316L), cable gland: b	rass, nickel plated			
Option field housing		stainless steel 1.43	01 (304); cable glan	d M16x1.5, brass, ni	ckel plated (clamping	range 2 8 mm)		
Seals (media wetted)		none (welded version)						
Diaphragm		stainless steel 1.45	42 (17-4 PH)					
Media wetted parts		pressure port / diap	hragm					



Miscellaneous		
Current consumption	signal output current: max. 25 mA	
	signal output voltage: max. 8,5 mA	
Weight	approx. 240 g	
Installation position	any	
CE-conformity	EMC Directive: 2014/30/EU	Pressure Equipment Directive: 2014/68/EU (module A)

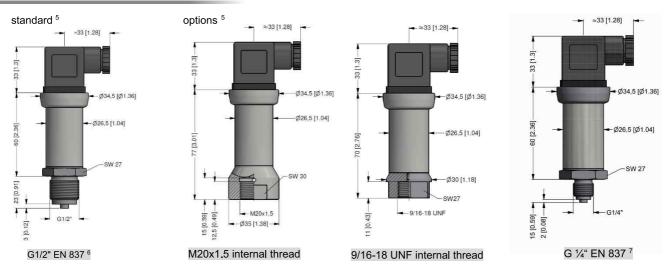
ELECTRICAL CONNECTION





⁴ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

DIMENSION DRAWINGS



⁵ adjustable version is not possible in combination with field housing and cable outlet

⁷ according to EN 837, maximum possible pressure is 1000 bar!

⁶ according to EN 837, the pressure port and the complement at pressure over 1000 bar must be preferably made of stainless steel with a tensile strength of R_P > 260 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

ORDER CODE

	CCA-P-334	-⊏]-□	∏-[]-□	Д
Pressure							
Gauge	1 4 0						
Input [bar]							
0 600 ¹	6 0 0 3						
0 1000	1 0 0 4						
0 1600	1 6 0 4						
0 2000	2 0 0 4						
0 2200	2 2 0 4						
Customer	9 9 9 9						
Output							
4 20 mA / 2-wire	1						
0 20 mA / 3-wire	2						
0 10 V / 3-wire	3						
Customer	9						
Accuracy							
0,35 % (standard)		3					
0,35 % including Calibration Certificate		S					
Table of measured values for accuracy 0,35 %		М					
Customer		9					Ш
Electrical connection							
Connector DIN 43650 (ISO 4400) (IP 65)		1					
Connector Binder 723 5-pin (IP 67)		2					
Cable gland PG7 / cable length specify (IP 67)		4	0 0				
+ PVC cable / 1 m							
Connector Buccaneer (IP 68)		5					
Field housing stainless steel, cable gland M16 x 1,5 (IP 67)		8					
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)		Е					
Connector M12 x 1, 4-pin (IP 67)		N					
Connector M12 x 1, 4-pin (IP 67) - metal		M					
Cable outlet, cable with ventilation tube (IP 68)		Т	R 0				
+ PVC cable / 1 m							
Customer		9	9 9				Ш
Mechanical connection							
G 1/2" EN 837 $(P_N \le 1000 \text{ bar})^2$					0		
G 1/4" DIN 837 (P _N ≤ 1000 bar)					0		
M 16 x 1,5 internal thread					0		
M 20 x 1,5 internal thread					8		
9/16 UNF internal thread					0		
Customer				9 9	9		\bot
Seals William and a seal of the seal of th							
Without seals - welded						2	
Customer						9	
Special version							
Standard							
Adjustable (using trimmers) Customer							4 1
Customer						9	9 9

- 1 only available with pressure port G1/2" EN 837
 2 according to EN 837, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile strength of RP > 260 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

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



