



### Main Features

- Ranges: from 1 to 1000 bar
- Nominal Output Signal:  
0...10V (3 wires) / 4...20 mA (2 wires)
- Small dimension
- Wetted parts: Stainless Steel

KS transmitters are based on film sensing element deposited on stainless steel diaphragm. Thanks to highly stable electronic and compact design these transducers can be used in applications requiring long-distance signal transmission or in smart control systems.

KS pressure transmitters are designed mainly to measure pressure in oil, air, and hydraulic circuits. They can also be used in the technical and process measurement application as well as for compressors, presses and mobile hydraulic.

### TECHNICAL DATA

	VOLTAGE	CURRENT
Output signal		
Accuracy (1)	< ±0.5% FSO	
Pressure ranges (2)	From 1 bar to 1000 bar (see table)	
Resolution	Infinite	
Overpressure (without degrading performance)	see table below	
Pressure containment (burst test)	see table below	
Pressure Media	Fluid compatible with Stainless Steel	
Housing	Stainless Steel	
Power supply	12...32Vdc	10...32Vdc
Dielectric strenght	350 Vdc	
Zero output signal	0 V (nominal)	4 mA (nominal)
Full scale output signal	10 V (nominal)	20 mA (nominal)
Long term stability	< 0.2% FSO/per year	
Operating temperature range (process)	-40...+125°C (-40...+257°F)	
Operating temperature range (ambient)	-40...+105°C (-40...+221°F)	
Compensated temperature range	-20...+85°C (-4...+185°F)	
Storage temperature range	-40...+125°C (-40...+257°F)	
Temperature effects over compensated range (zero-span)	± 0.015% FSO/°C typical (± 0.02% FSO/°C max.)	
Response time (10...90%FSO)	< 1 msec.	
Warm-up time (3)	< 30 sec.	
Mounting position effects	Negligible	
Humidity	Up to 100%RH non-condensing	
Weight	80-120 gr. nominal	
Mechanical shock	1000g according to IEC 68-2-32	
Vibrations	20g according to IEC 68-2-6 and IEC 68-2-36	
Ingress protection	sealed to IP65/IP67	
Output short circuit and reverse polarity protection	YES	
CE Conformity	EC Directive 2004/108/CE	

FSO = Full Scale Output

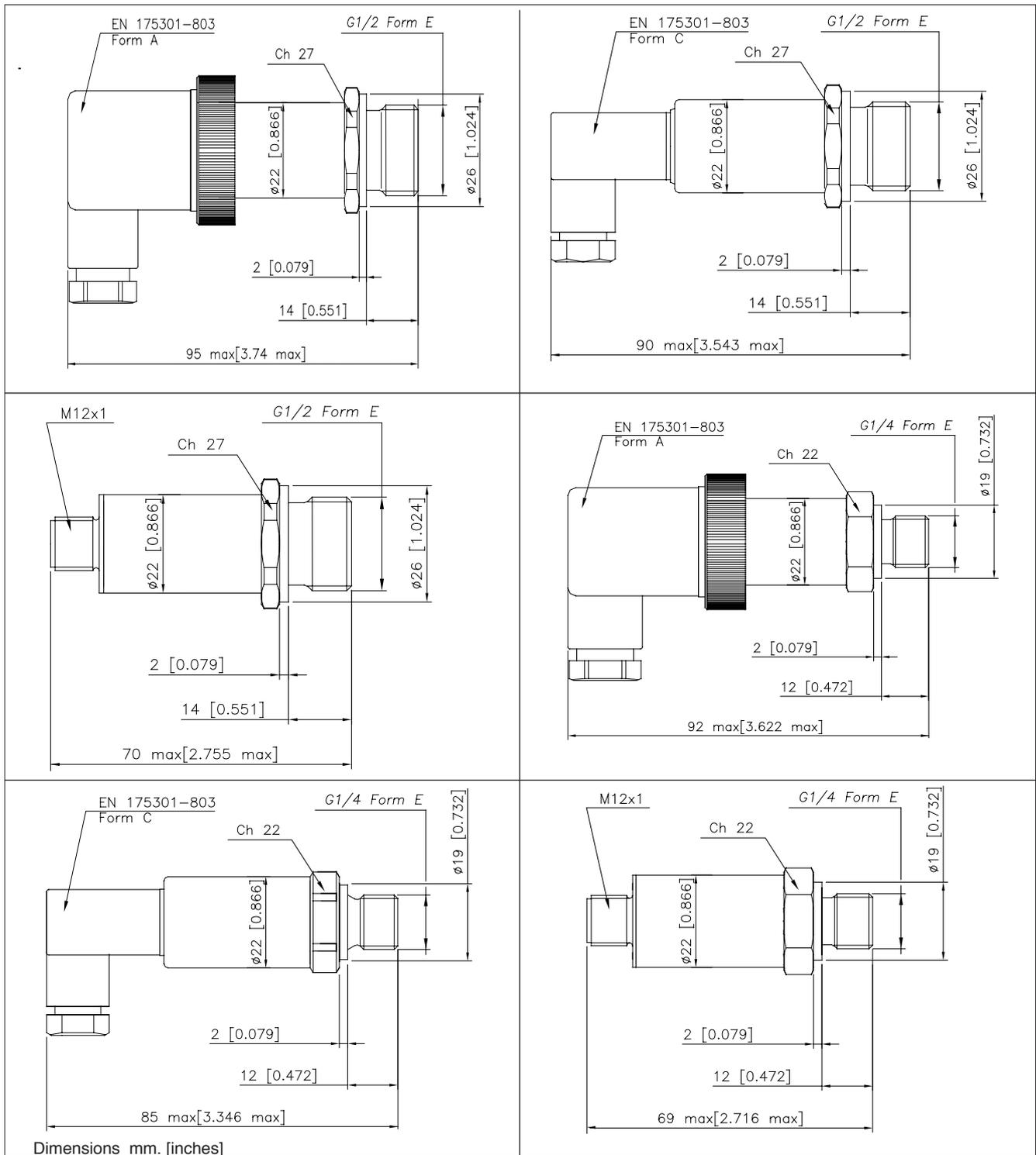
1 Incl. Non-Linearity, Hysteresis, Repeatability, Zero-offset and Final-offset (acc. to IEC 61298-2)

2 The operating pressure range is intended from 0.5% to 100% FS

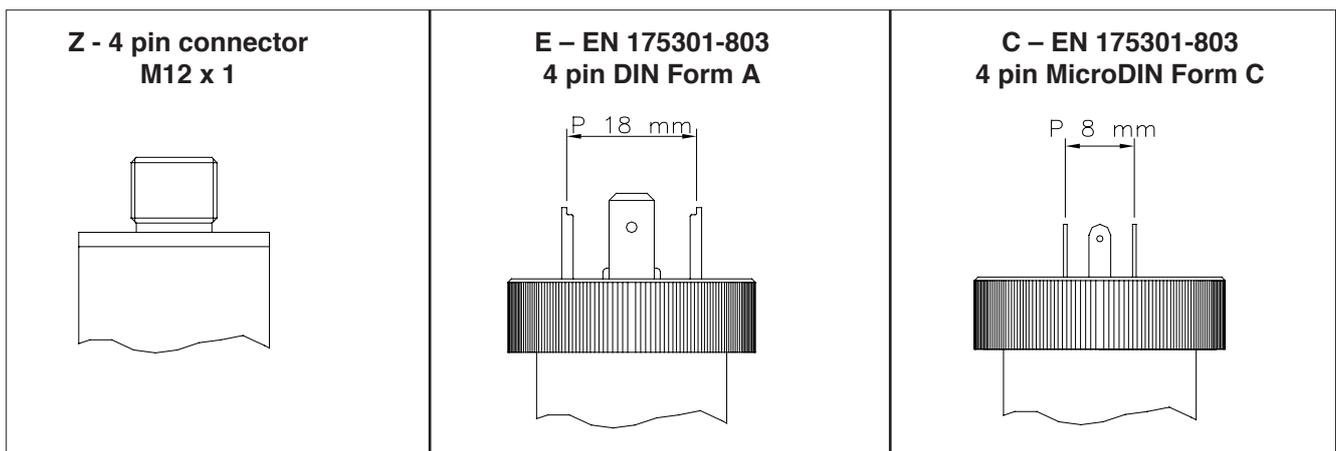
3 Time within which the rated performance is achieved

RANGE (Bar)	1	1.6	2	2.5	4	6	10	16	20	25	40	60	100	160	200	250	400	600	1000
Overpressure (Bar)	6	6	6	10	10	20	20	40	40	100	100	200	200	400	400	750	750	840	1200
Burst pressure (Bar)	9	9	9	15	15	30	30	60	60	150	150	300	300	600	600	1000	1000	1050	1500

# INSTALLATION DRAWINGS



# ELECTRICAL CONNECTION

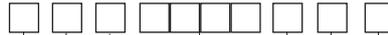




## ORDERING INFORMATION

Pressure transmitter

KS



OUTPUT SIGNAL	
Standard	
4...20 mA	<b>E</b>
0...10 Vdc	<b>N</b>

Mechanical and/or electrical characteristics differing from standard may be arranged on request.

RESPONSE TIME	
<b>V</b>	Fast (< 1 msec)

PRESSURE CONNECTION	
Standard	
G 1/4 gas male (DIN 3852-E)	<b>E</b>
On Request	
G 1/2 gas male	<b>3</b>

ACCURACY	
<b>M</b>	± 0.5% FSO Typical

Other Option On Request

CONNESSIONI ELETTRICHE	
Standard	
4-pin connector microDIN (P 8)	<b>C</b>
4 pin connector M12x1	<b>Z</b>
On Request	
4-pin connector DIN (P 18)	<b>E</b>

MEASUREMENT RANGE			
	bar		bar
<b>B01U</b>	1	<b>B04D</b>	40
<b>B1V6</b>	1.6	<b>B06D</b>	60
<b>B02U</b>	2	<b>B01C</b>	100
<b>B2V5</b>	2.5	<b>B16D</b>	160
<b>B04U</b>	4	<b>B02C</b>	200
<b>B06U</b>	6	<b>B25D</b>	250
<b>B01D</b>	10	<b>B04C</b>	400
<b>B16U</b>	16	<b>B06C</b>	600
<b>B02D</b>	20	<b>B01M</b>	1000
<b>B25U</b>	25		

Other Option On Request

CALIBRATION STANDARD	
Instruments manufactured by Gefran are calibrated against precision pressure calibration equipment which is traceable to International Standards.	

**Ex: KS - E - E - C - B04C - M - V**

Pressure transmitter KS with 4 to 20 mA output signal, G1/4 male (DIN 3852-E) pressure connection, microDIN electrical connector, 0...400 bar pressure range, ±0.50% FSO accuracy, 1 msec response time.

Sensors are manufactured in compliance with:

- EMC2004/108/CE compatibility directive
- RoHS 2002/95/CE directive

Electrical installation requirements and Conformity certificate are available on our web site: [www.gefran.com](http://www.gefran.com)

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice