# **GEFRAN**

## KS

### PRESSURE TRANSMITTER



#### Main Features

- · Ranges: from 1 to 1000 bar
- Nominal Output Signal:
   0...10V (3 wires) / 4...20 mA (2 wires)
- Compact size
- · 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**

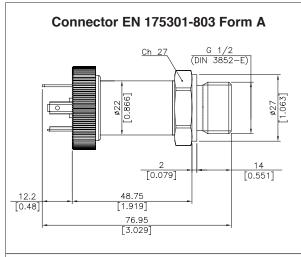
Output signal	VOLTAGE	CURRENT			
Accuracy (1)	< ±0.5	5% FSO			
Pressure ranges (2)	From 1 bar to 10	000 bar (see table)			
Resolution	Infinite				
Overpressure (without degrading performance)	see table below				
Pressure containment (burst test)	see tab	ole below			
Pressure Media	Fluids compatible with Stainless Steel AISI 430F and 17-4Pl				
Housing		iteel AISI 304			
Power supply	1530Vdc	1030Vdc			
Dielectric strenght	250 Vdc  0 V (nominal) 4 mA (nominal)  10 V (nominal) 20 mA (nominal)				
Zero output signal		` ,			
Full scale output signal	10 V (nominal)	20 mA (nominal)			
Max allowed load	2 mA	see load diagram			
Long term stability		SO/per year			
Operating temperature range (process)		(-40+257°F)			
Operating temperature range (ambient)		(-40+221°F)			
Compensated temperature range		°C (-4+185°F)			
Storage temperature range	-40+125°C (-40+257°F)				
Temperature effects over compensated range (zero-span)	$\pm$ 0.015% FSO/°C typical ( $\pm$ 0.02% FSO/°C max.)				
Response time (1090%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	100g/11 msec according to IEC 60068-2-27				
Vibrations	20g max at 102000 Hz according to IEC 60068-2-6				
Ingress protection	sealed to IP65/IP67				
Output short circuit and reverse polarity protection		ES			
CE Conformity	EC Directive	2004/108/CE			

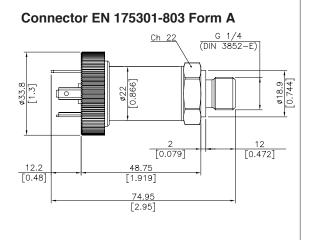
FSO = Full Scale Output

- 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

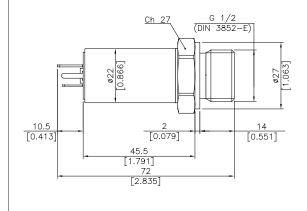
RANGE (Bar)	1	1.6	2	2.5	4	6	10	16	20	25	40	60	100	160	200	250	400	600	1000
Overpressure (Bar)	6	6	6	10	10	20	20	32	40	50	80	120	200	320	400	500	800	1200	1200
Burst pressure (Bar)	9	9	9	15	15	30	40	64	80	100	160	240	400	640	800	1000	1500	1500	1500

#### **INSTALLATION DRAWINGS**

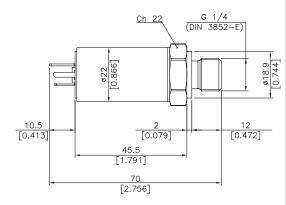




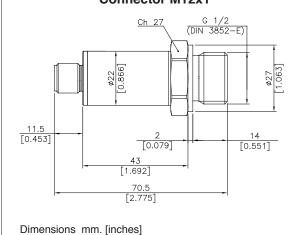
#### Connector EN 175301-803 Form C





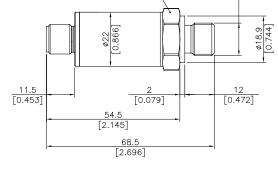


## Connector M12x1

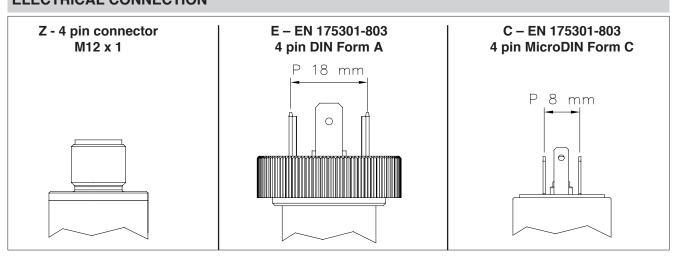




Connector M12x1

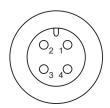


## **ELECTRICAL CONNECTION**



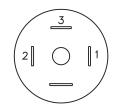
#### **ELECTRICAL CONNECTION - Connectors**

#### Z – 4 pin male connector M12 x 1



4 pin series 713 male connector Protection IP67

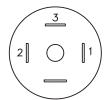
#### E - EN 175301-803



4 pin DIN Form A

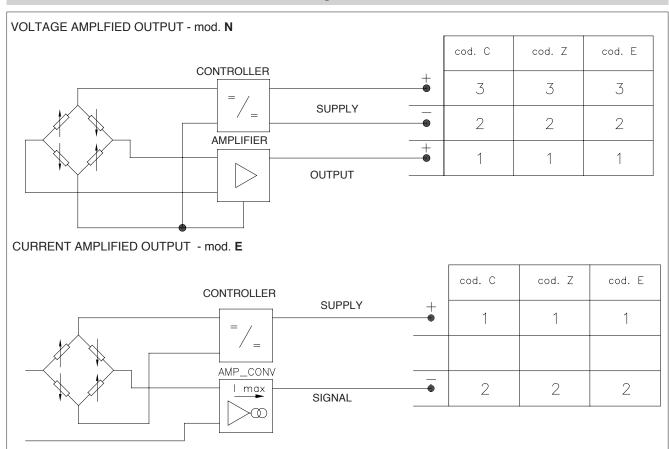
Protection IP65

#### C - EN 175301-803

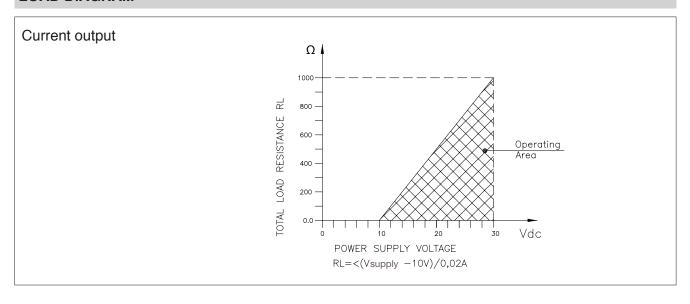


4 pin MicroDIN Form C Protection IP65

## **ELECTRICAL CONNECTION - connection diagrams**



#### **LOAD DIAGRAM**



#### **ACCESSORIES ON REQUEST**

**Connectors Plugs** 

Connection E

EN 175301-803 4 pin DIN Form A (P 18) - Prot. IP65

**Connection Z** 

4 pin connector M12 x 1 - Prot. IP67

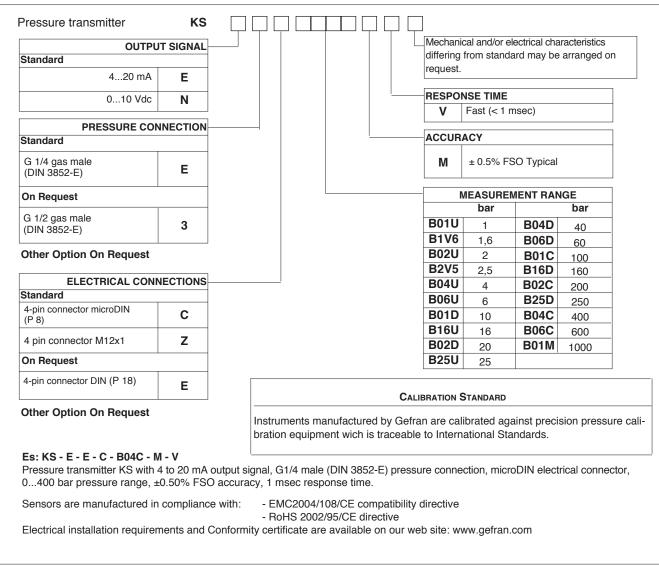
**Connection C** 

EN 175301-803 4 pin MicroDIN Form C (P 8) - Prot. IP65 CON 047

#### **EXTENSION CABLES**

CAV011	Cable color code			
	Pin	Wire		
CAV012	1	Brown		
CAV013	2	White		
CAV015	3	Blue		
0711010	4	Black		
	CAV011 CAV012 CAV013 CAV015	CAV011 Pin CAV012 1 CAV013 2 CAV015 3		

#### ORDERING INFORMATION



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

**GEFRAN** spa

via Sebina, 74 25050 PROVAGLIO D'ISEO (BS) - ITALIA tel. 0309888.1 - fax. 0309839063

Internet: http://www.gefran.com

