

MAIN FEATURES

- Pressure ranges of 1500 bar, 2000 bar e 2500 bar for dynamic applications
- Accuracy 0.25%
- Fluid filled system for temperature stability
- Filling fluid: 35 mm³ of mercury
- Small 6mm diameter contact diaphragm and M10x1.0 mm thread for mounting into small diameter nozzle applications
- Contact diaphragm made from 17-7PH stainless steel and coated with Titanium Aluminum Nitride
- Small electronics housing and flex diameter for easy installation into space restricted areas
- Reliable metal film strain gages bonded to a 15-5PH stainless steel sensing element
- Remote electronics .
- Available output are 0-10V and CAN Open output (DP404)
- US Patent NR. 6.955.087

TECHNICAL SPECIFICATIONS FOR SENSOR

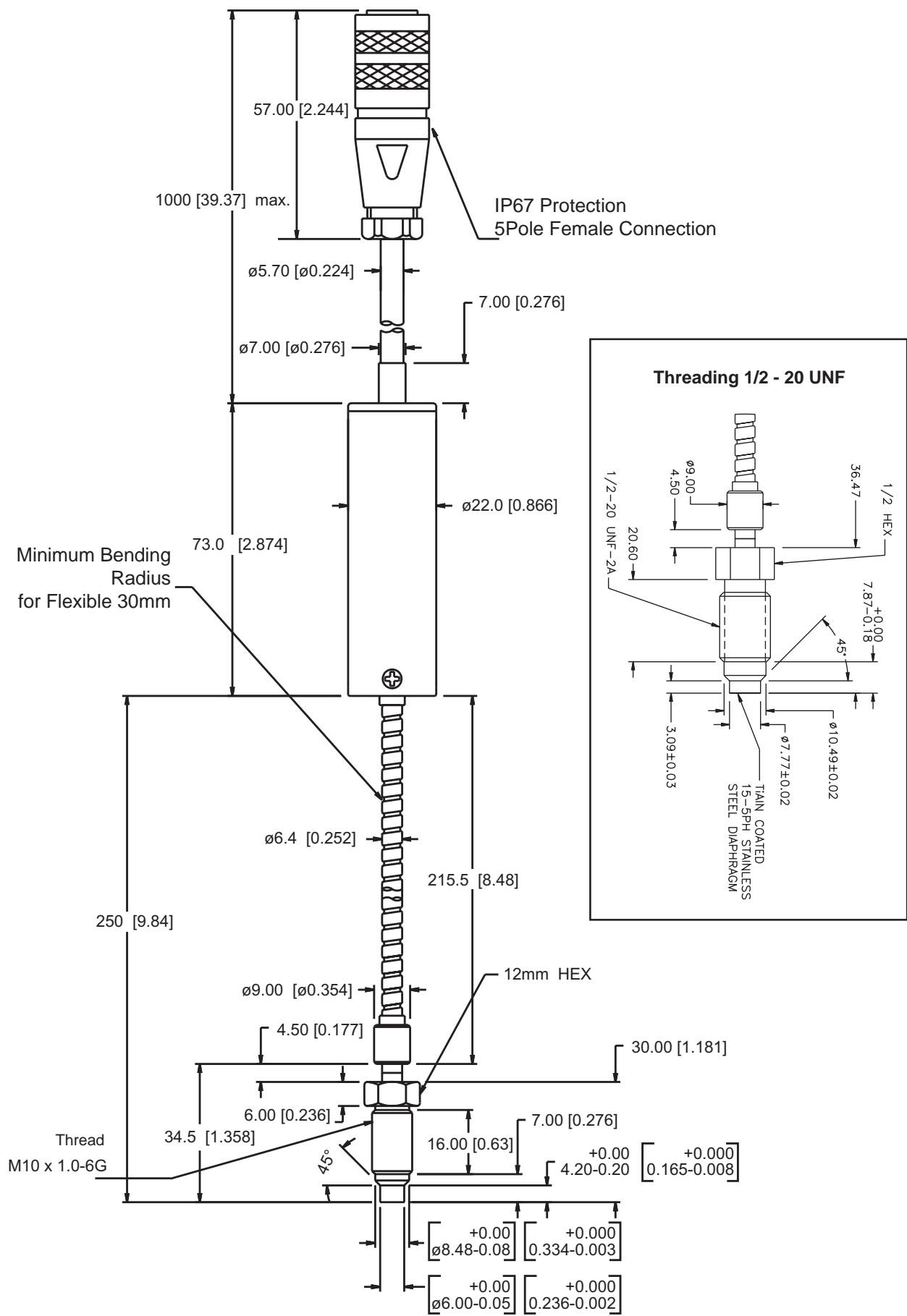
Measurement range	1500, 2000, 2500Bar
Accuracy	± 0,25% FSO
Repeatability	± 0,1% FSO
Full Scale Output (FSO)	1,4mV/V
Maximum overpressure	3000Bar or 2 x Full Range (whichever is less) Max. overpressure 3500Bar for 20sec.
Contact Diaphragm Diam	6mm
Thread size	M10x1
Contact Diaphr. Material	Titanium Aluminium Nitride Coated 17-7 PH Stainless Steel
Flex length (max.)	250mm
Measurement principle	Wheatstone strain gauge
Response time	Approx. 1,4 msec. for 250mm. flex version
Maximum temperature of Diaphragm	400°C / 750°F
Zero drift due to change in process temperature	0,03Bar/°C
Maximum temperature on sensor electronics housing	120°C
Compensated range for sensor	20°C to 100°C
Zero Thermal drift in compensated range	≤ 0,02% FSO/°C
Span Thermal drift in compensated range	≤ 0,02% FSO/°C
Mounting torque	56Nm (max)
Connector	5 pole female

TECHNICAL SPECIFICATIONS FOR REMOTE ELECTRONICS

Output signal	0...10V (opt. N) CANOpen DP404 (opt. D)
Input signal	1,4mV/V
Response time	500µsec. (opt. N) 4msec (opt. D)
Maximum amplifier temperature range	70°C
Power supply digital output (opt. D)	12...40Vdc
Power supply analog output (opt. N)	15...30Vdc
Connection from output (opt. N)	7-pole male connector
Connection from output (opt. D)	5-pole male connector

FSO = Full Scale Output

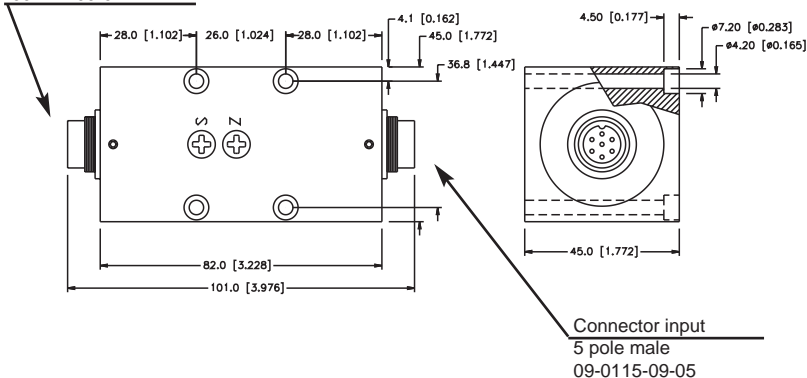
PRESSURE TRANSDUCERS



ELECTRICAL CONNECTIONS

NJ-N 0-10V OUTPUT

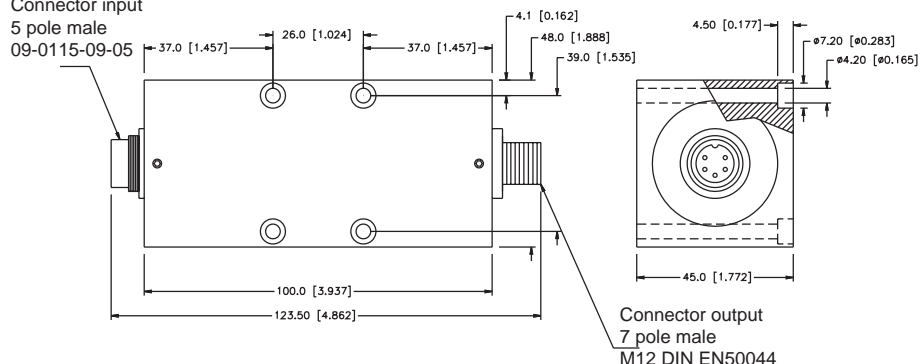
Connector output
7 pole male
09-127-09-07



Pin Con.	Colour code	Connection
1	Black	SIGNAL -
2	Blue	CALIBRATION -
3	Orange	CALIBRATION +
4	White	SUPPLY +
5	Green	SUPPLY -
6	Red	SIGNAL +
7	N.C.	N.C.

NJ-D CANOPEN DP404 OUTPUT

Connector input
5 pole male
09-0115-09-05



Pin Con.	Colour code.	Connection
1	Brown	N.C.
2	White	SUPPLY +
3	Blue	SUPPLY -
4	Black	CAN H
5	Gray	CAN L

ACCESSORIES

Connectors

7-pin female connector (IP40)
7-pin female connector 90° (IP40)
5-pin M12 female connector (IP65)

CON320
CON322
CON031

Extension cords for 0...10V output

7-pin connector with cord length 3 meters
7-pin connector with cord length 5 meters
7-pin connector with cord length 8 meters

PCAV151
PCAV152
PCAV153

Extension cords for CANopen output

5-pin M12 connector with cord length 2 meters
5-pin M12 connector with cord length 5 meters
5-pin M12 connector with cord length 10 meters
Other lengths

CAV011
CAV012
CAV013
on request

Accessories

Mounting bracket
Mounting terminal
Closure stem
Cleaning kit
Drill kit

PKIT172
PKIT176
SC 10
CT 10
KF 10

ORDER CODE

PRESSURE TRANSDUCERS

MJ ☐ ☐ ☐ ☐ ☐ NJ ☐ ☐

CONFIGURATION	
Flex	1

ACCURACY CLASS	
0,25%	H
0,50%	M

PRESSURE RANGE	
1500 bar	B15C
2000 bar	B02M
2500 bar	B25C
25000 psi	P25M
30000 psi	P30M
35000 psi	P35M

FLEX LENGTH	
150 mm	1
250 mm	2

THREAD	
1/2 - 20UNF	1
M10x1	2

ELECTRONIC REMOTE

N	0-10V
D	CAN OPEN

NJ	MELT INJECTION ELECTRONICS
----	-------------------------------

Example:

MJ-1-H-B25C-2-NJ-N

Melt injection sensor with 0-2500 bar full scale capability, 0,25% accuracy class, flex length of 250 mm and 0-10V output.

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.

GEFRAN spa
via Sebina, 74
25050 PROVAGLIO D'ISEO (BS) - ITALIA
tel. 0309888.1 - fax. 0309839063
Internet: <http://www.gefran.com>
www.gefranonline.com

GEFRAN

DTS_MJ_0109_ENG