

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

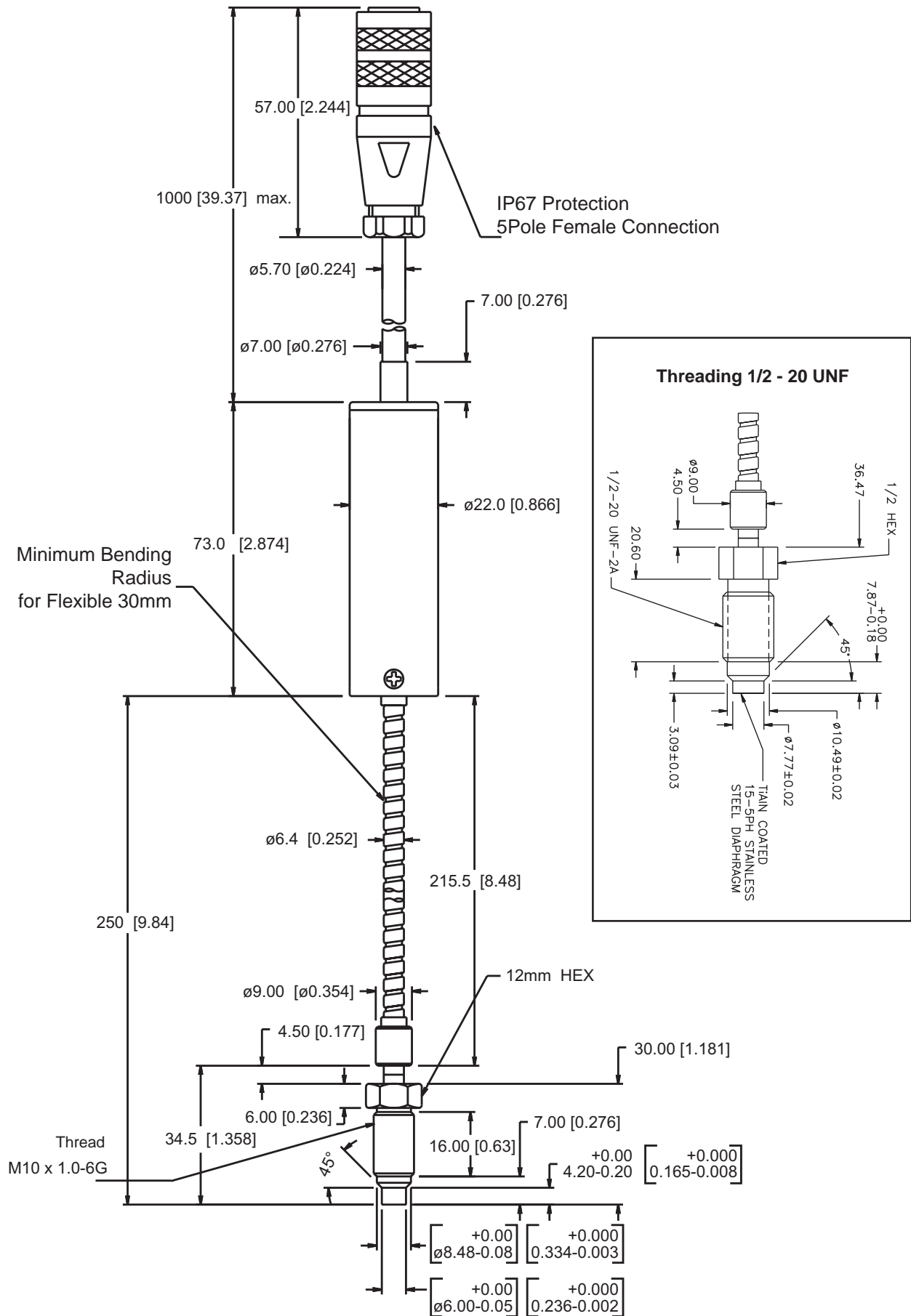
Measurement range	1500, 2000, 2500Bar
Accuracy	± 0,25% FSO
Repeatability	± 0,1% FSO
Full Scale Output (FSO)	1,4mV/V
Maximum overpressure	3000Bar or 2 x Full Range (wichever is less) Max. overpressure 3500Bar for 20sec.
Contact Diaphragm Diam	6mm
Thread size	M10x1
Contact Diaphragm Material	Titanium Aluminium 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

MECHANICAL DIMENSIONS

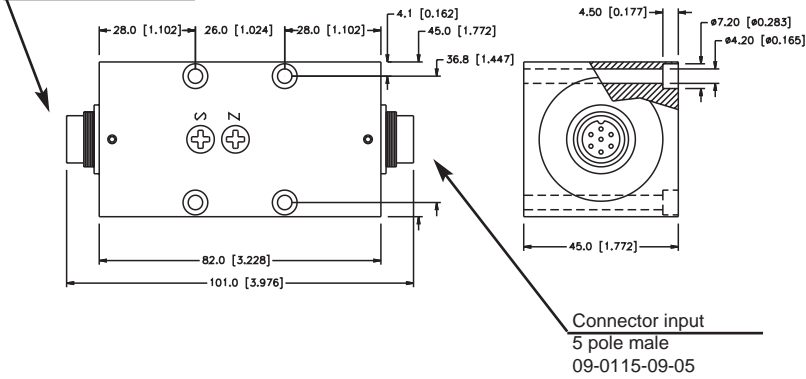
PRESSURE TRANSDUCERS



ELECTRICAL CONNECTIONS

NJ-N 0-10V OUTPUT

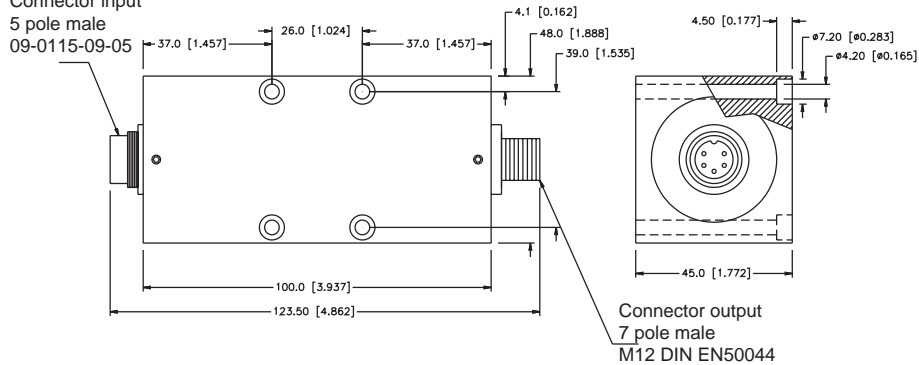
Connector output
7 pole male
09-127-09-07



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)

CON320

7-pin female connector 90° (IP40)

CON322

5-pin M12 female connector (IP65)

CON031

Extension cords for 0...10V output

7-pin connector with cord length 3 meters

PCAV151

7-pin connector with cord length 5 meters

PCAV152

7-pin connector with cord length 8 meters

PCAV153

Extension cords for CANopen output

5-pin M12 connector with cord length 2 meters

CAV011

5-pin M12 connector with cord length 5 meters

CAV012

5-pin M12 connector with cord length 10 meters

CAV013

Other lengths

on request

Accessories

Mounting bracket

PKIT172

Mounting terminal

PKIT176

Closure stem

SC 10

Cleaning kit

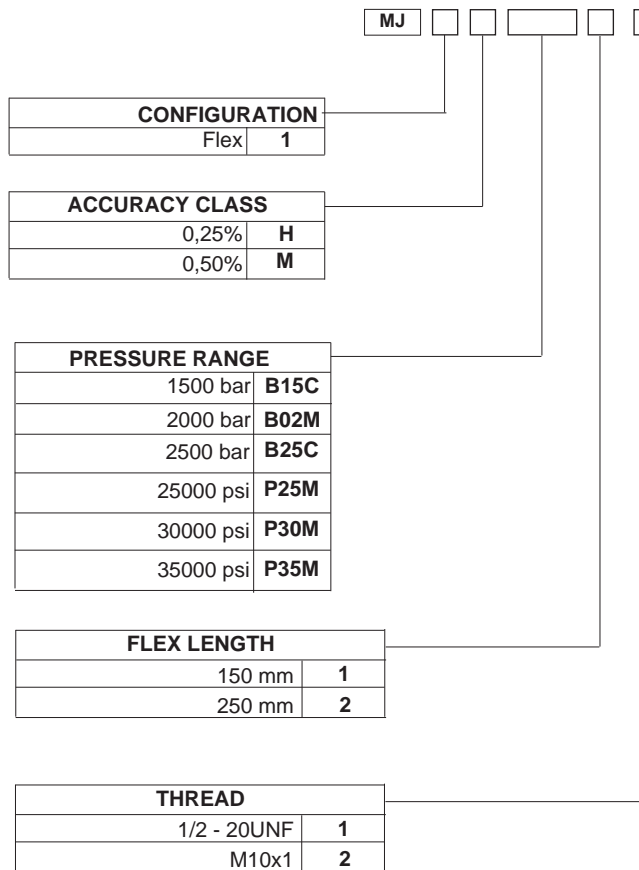
CT 10

Drill kit

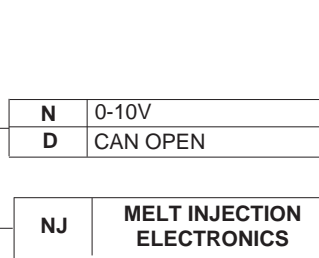
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ORDER CODE

PRESSURE TRANSDUCERS



ELECTRONIC REMOTE



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.

Sensors are manufactured in compliance with:

- EMC 2004/108/CE compatibility directive
- RoHS 2002/95/CE directive

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

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

GEFRAN

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

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