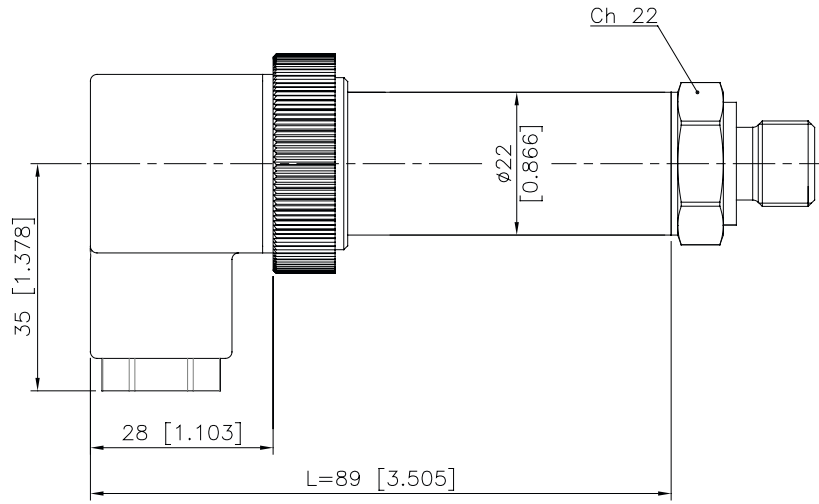


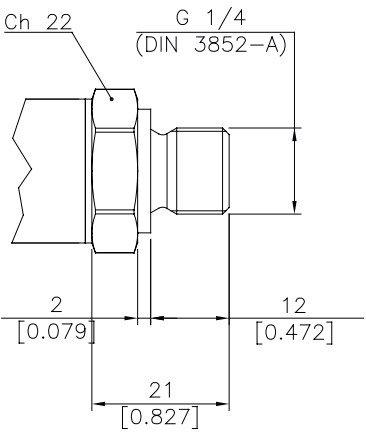
INSTALLATION DRAWINGS

Dimensions: mm [inches]

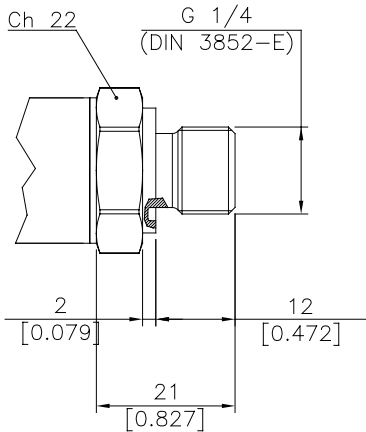


PRESSURE CONNECTION

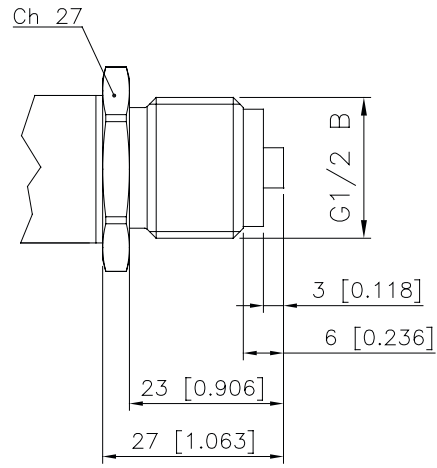
(1) G 1/4 MALE
(DIN 3852-A)



(E) G 1/4 E
(DIN 3852-E)

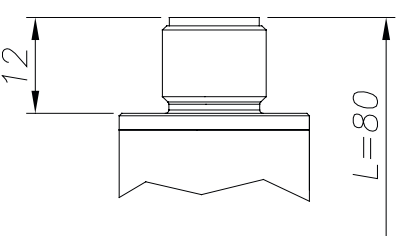


(3) G 1/2 B
(EN 837)

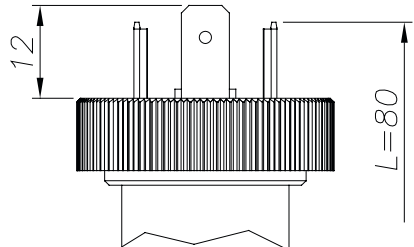


ELECTRICAL CONNECTION

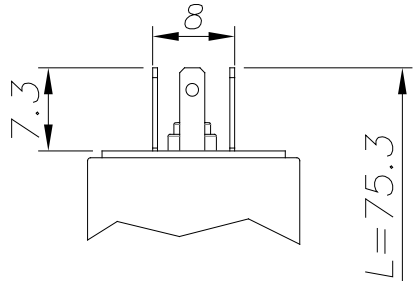
Z - 4 pole connector M12x1



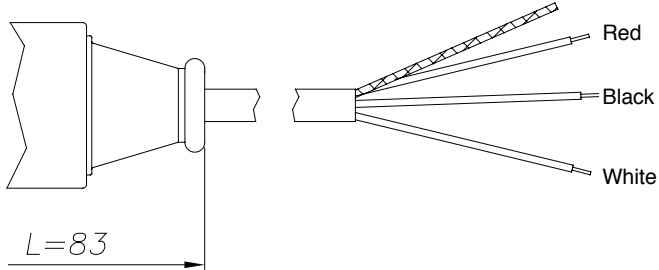
E - EN 175301-801 type A



C - EN 175301-801 type C

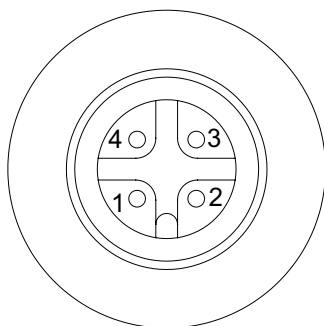


F - 2/3 pole cable



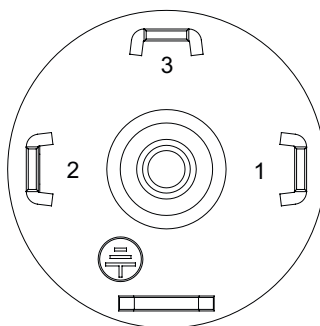
ELECTRICAL CONNECTION - Connectors

Z - M12 x 1 (4 pin)



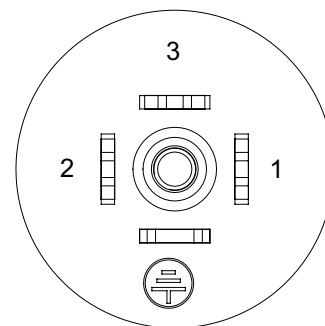
Protection IP67

E - EN 175301-803A



Protection IP65

C - EN 175301-803C

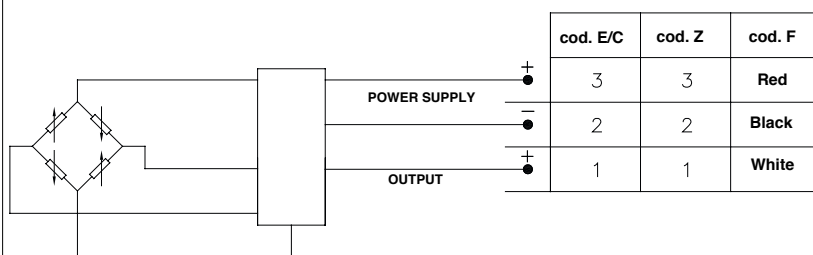


Protection IP65

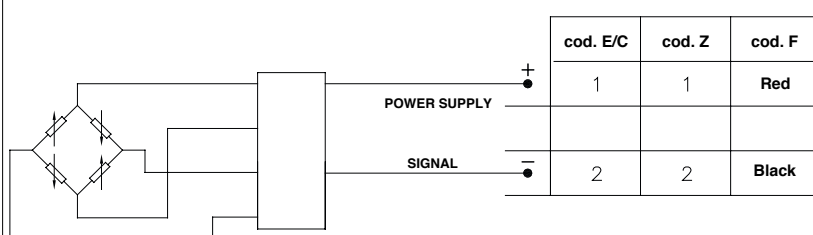
1. The IP rating specified in this document normally applies with the suitable female connector plugged-in and properly wired.
2. The transducers with relative pressure measuring ranges require vented cable and/or mating connector, to allow the compensation of the atmospheric pressure reference.

ELECTRICAL CONNECTION - connection diagrams

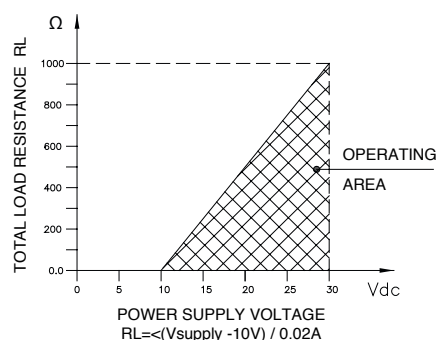
VOLTAGE AMPLIFIED OUTPUT - mod. C/M/N



CURRENT AMPLIFIED OUTPUT - mod. E



LOAD DIAGRAM



ACCESSORIES ON REQUEST

Connectors Plugs

Connection E

EN 175301-803 4 pin Type A – Prot. IP65

CON 006

Connection Z

4 poles connector M12x1 – Prot. IP67

CON 293

Connection C

EN 175301-803 4 pin Type C – Prot. IP65

CON 047

EXTENSION CABLES

IP67 female connector M12 x 1 + 2 m of cable

CAV220

IP67 female connector M12 x 1 + 3 m of cable

CAV221

IP67 female connector M12 x 1 + 5 m of cable

CAV222

IP67 female connector M12 x 1 + 10 m of cable

CAV223

Cable color code

Pin	Wire
1	Brown
2	White
3	Blue
4	Black

ORDERING INFORMATION

Pressure transmitter

TSA

OUTPUT SIGNAL		
4 .. 20 mA	E	
0 .. 10 Vdc	N	
0,1 .. 10,1 Vdc	C	
0 .. 5 Vdc	M	
Different outputs available on request		

PRESSURE CONNECTION		
G 1/4 male (DIN 3852-A)	1	
G 1/4 male (DIN 3852-E)	E	
G 1/2 B male (EN 837)	3	
Different pressure connections available on request		

ELECTRICAL CONNECTION		
EN 175301-803 type A	E	
4 pole M12x1 connector	Z	
EN 175301-803 type C	C	
Shielded cable (1 m)*	F	
Different connectors available on request		
* Different lengths of cable available on request		

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

RESPONSE TIME

V Fast (< 4 msec)

ACCURACY

T ±0,25%FS

G Relative

A Absolute

CALIBRATION STANDARDS

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

MEASUREMENT RANGE

bar			psi		
BV05	0...0.05		P01U	0...1	
BV10	0...0.1		P2V5	0...2.5	
BV25	0...0.25		P05U	0...5	
BV50	0...0.5		P15U	0...15	
B01U	0...1		P18U	11...18	
B1V2	0.8...1.2		P03D	0...30	
B02U	0...2		P05D	0...50	
B2V5	0...2.5		P75U	0...75	
B04U	0...4		P01C	0...100	
B05U	0...5		P15D	0...150	
B06U	0...6		P25D	0...250	
B07U	0...7		P03C	0...300	
B01D	0...10		P05C	0...500	
B16U	0...16		P75D	0...750	
B02D	0...20		P01M	0...1000	
B25U	0...25				
B03D	0...30				
B04D	0...40				
B05D	0...50				
B06D	0...60				

= Range available also "Absolute"

B1V2 = Range available only "Absolute" (Barometric)

P18U = Range available only "Absolute" (Barometric)

Note: The measurement range B1V2 is for absolute pressure from 0.8 to 1.2 bar and is defined as "Barometric". The signal output is scaled from 800mbar (i.e. 4mA) to 1200mbar (i.e. 20mA).

Sensors are manufactured in compliance with: - EMC 2014/30/EU compatibility directive

- RoHS 2011/65/EU directive

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

Ex.: **TSA - N - 1 - Z - B03D - G - T - V**

Pressure transmitter TSA with 0...10Vdc output signal, G 1/4 male pressure connection, M12x1 connector, pressure range 0...30 bar gauge, ±0.25% FS accuracy, 4 msec response time.

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

GEFRAN spa

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