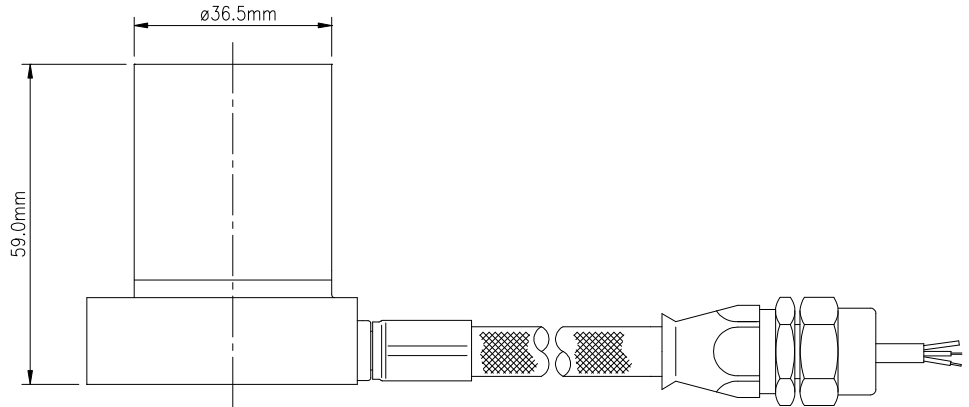




PZDC3 VELOCITY TRANSDUCER



- HEAVY INDUSTRIAL
- STAINLESS STEEL HERMETICALLY SEALED DUAL CASE
- INTERNALLY SHIELDED
- ELECTRICAL AND THERMAL ISOLATION
- FULLY SCREENED
- HIGH LEVEL OF PHYSICAL PROTECTION
- INTRINSICALLY SAFE OPTION

The PZDC3 vibration sensor is a well protected heavy industrial accelerometer, giving a process output of 4-20mA proportional to various vibration ranges in terms of velocity RMS.

The PZDC3 is intended for use as a direct input of vibration levels into many different kinds of control and data acquisition systems, however it can be used with a trip amplifier or suitable display as a stand alone unit.

The outer case is constructed from the stainless steel, hermetically sealed and electrically isolated from the signal connectors which are made by top exit cable or 2 pin connector.

PZDC3 VELOCITY TRANSDUCER

SPECIFICATION

Operating Voltage.....	16 to 32 volts D. C.
Output signal.....	4-20mA proportional to output ranges
Frequency Range	10Hz to 1KHz (1dB), 2.5Hz to 10KHz (3dB)
Transverse sensitivity	Less than 5%
Temperature sensitivity	0.05% per °C
Residual electrical noise	Less than 0.2mg (2.5Hz to 10KHz)
Signal transmission	Two-wire system, electrically isolated from body up to 500Vac
Weight.....	420 gms (nominal)
Certification ATEX	CE Ex II 1G (Ex ia IIC T4) Tamb = 80°C

Environmental

Acceleration limit: Vibration.....	200g pk at 120Hz for 10 mins
Temperature: Operation	-30°C to +120°C (IP68 version -30°C to +80°C)
Survival	-55°C to +150°C
	NB. Certain types of connector or cable may limit the temperature performance of the transducer, see IS. Sheet for details.
Protection (BS.EN60529).....	Sealed to IP.66 / IP.67 (also IP68 version available)

ORDERING INFORMATION

PZDC3 -

A	B	C	D	E	F
2					

A Electrical Configuration

2

 - 2 wire ICP device

B Connection Method

6	A
---	---

 Integral Economy PVC Cable (80°C) Unarmoured

6	B
---	---

 Integral Economy PVC Cable (80°C) Armoured

6	C
---	---

 Integral Cable (140°C) Unarmoured

6	D
---	---

 Integral Cable (140°C) Armoured

7	G
---	---

 Integral Economy Unarm'd Cable/Waterproof Gland

8	E
---	---

 Integral Connector, 2 pin, circular, threaded

9	C
---	---

 Integral Cable Unarm'd/Braided Flexible Conduit

C₂ Conduit Length Over Cable

For connection method 9 only, excess cable in 0.5m increments

0	2	A
---	---	---

 e.g.2m conduit, 0.5m excess cable from end (Std)

0	2	B
---	---	---

 e.g.2m conduit, 0.3m excess cable from free end

0	2	C
---	---	---

 e.g.2m conduit, 1.0m excess cable from free end

0	2	D
---	---	---

 e.g.2m conduit, 1.5m excess cable from free end

0	2	E
---	---	---

 e.g.2m conduit, 2.0m excess cable from free end

D Cable/Conduit End Fitting

0

 - No cable/conduit end fitting.

1

 ¼" BSP female

2

 M16 male

3

 M20 male

E Output Range (3dB point)

0

 1=15mm/s, 2= 20mm/s, 3=25mm/s,4=50mm/s

C₁ Cable length (Specify in whole metres)

0	2
---	---

 e.g. = 2m Total length, from TxD to free end

0	0
---	---

 for no cable, i.e. connector versions of instrument

F Hazardous Area Approval

0

 - Non Intrinsic

1

 - Intrinsically Safe Option.

DS1173_2



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