

General Information

PTXV07E-70 senses pressure and generates a proportional electrical output signal.

Safety Instructions

Read the installation instructions thoroughly. Failure to comply can result in device failure, system damage or personal injury. Before opening any system make sure the pressure in the system is brought to and remains at atmospheric pressure.

Make sure that the supply voltage to system and PTXV07E are disconnected before installation or service.

Compliance with local electrical regulations must be observed when connecting PTXV07E.

Improper installation of the cable between the pressure transducer and the electronic system may affect the output signal of the pressure transducer. Standard JTL installation procedures must be followed.

The PTXV07E is factory set.

Do not exceed proof pressure.

Mounting

Connection is female 7/16" 20UNF (¼ Flare) with Schrader Depressor. Do not exceed max torque of 15 Nm.

Do not subject the transducer to high temperature as a result of soldering, braising or welding.

For LT (frozen) Applications

The transducer must be outside the refrigerated envelope and must not be subjected to excessive low temperature by conduction from the refrigeration system. Polyamide capillary (available from JTL Systems) can be used to insulate from the cold pipes by enabling the transducer to be located outside the cold envelope. Please see Document 03211 for further details.

Mounting position: as desired

Wiring

Two wire connection for connection to JTL controllers see overleaf

WARNING

Take care NOT to connect the transducer with the wrong polarity as damage may result to the controller or transducer.

Technical Data

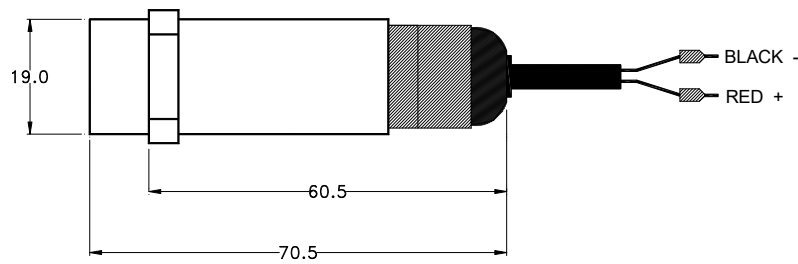
Pressure range	-1.0 . . . 7 bar gauge (-14.5 . . 101.5 psig)
Proof pressure, max	21 bar gauge (304 psig)
Burst pressure	280 bar gauge (4060 psig)
Output	4 . . . 20 mA
Supply voltage	8.0 V to 30 V dc two wire protected against reverse polarity
Permissible noise and ripple	<1 V p-p
Load resistance for output	$R \leq \frac{\text{supply voltage} - 8.0 \text{ V}}{0.02 \text{ A}}$

Total Error (including hysteresis, repeatability and linearity) 2%

Media compatibility:	HFC, HCFC, CFC
Media temperature range:	-40 . . . 105°C
Ambient temperature range:	-25 . . . 80°C

Protection:	IP65 according to IEC529 (DIN43650)
Type:	GEMS 3100

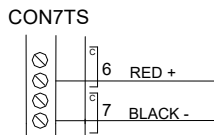
Dimensions :



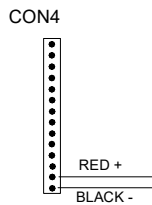
Connections :

CONTROLLER CONNECTIONS:

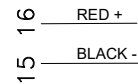
LCxx via CON7TS



LAXx

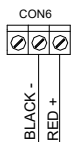


UAxx

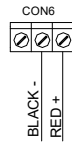


TRANSDUCER SPLITTER CONNECTIONS:

TSS15



TSS25



Applicable Documentation:

- | | |
|--------------------------------|--|
| Application Drawing: | Doc No. 03576, 03827, 04121, 3859 (TSS15), 03943 (TSS25) |
| Additional Installation Notes: | Doc No. 03211 |
| Conversion Guide | Doc No. 03170 |
| Declaration of Conformity | Doc No. 03885 |