PCI-650 Series – LVDT 4 to 20mA Transmitter



1% of FSO non-linearity Temperature compensated 4 to 20mA output 1,450 PSI (100 Bar) operation Compatible with Ammonia & compressor oils



Dimensions (11mm stroke version)

4.73 [120.14]

mA pos

4.297

[109.14] 20 ± 1 mA POSITION

> 3.937±.010 [100.0±0.25]

> > ¢ .650 [16.5]

3/4-16UNJF-24

0-RING GROOVE # .660+.002 X .094+.015 WIDE

SURFACE FINISH - 32

The PCI-650 Series transmitter is extremely rugged and accurate. It features a spring-loaded guided probe with a hard tip, and a removable electronic module to facilitate installation into pressurized devices such as valves and actuators. The PCI-650 is designed to operate in refrigerants (including ammonia) and compressor oils, as well as many other compatible fluids.

FEATURES

- 1% of FSO non-linearity, maximum
- Uses LVDT technology for excellent stability and temperature performance
- Infinite resolution
- EMI/EMC/ESD protected
- High reliability
- High vibration/shock withstanding
- ATEX certification
- Supplied with mating cable
- Calibration certificate provided with each unit

A DIRECTION

NW27

- **APPLICATIONS**
 - Refrigerant compressor capacity volume control valves
 - Refrigerant compressor oil systems
 - Slide valves
 - Short stroke hydraulic actuators
 - Other fluid and gas pressure applications
 - Applications requiring media isolation

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2.992±.030 [76.0±0.76]

.51 [13.0]

0

CONNECTOR TYPE GSSR 300 P/N 933114-100

2.559±.010

[65.0±0.25]

.25 [6.4]

.03

.187 [4.75]



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Performance specifications

| Parameter | Value | Comment |
|----------------------------|-------------------------------|-----------------------------|
| Stroke range | 0 to 11mm (0.433 inch) | Other strokes can be |
| | 0 to 40mm (1.575 inch) | created for high volume |
| | 0 o 70mm (2.756 inches) | OEM applications |
| | 0 to 85mm (3.346 inches) | |
| | 0 to 100mm (3.937 inches) | |
| Supply Voltage | 12 to 28 VDC | |
| Output | 4 to 20mA DC | |
| Non-linearity | ±1% of FSO, maximum | |
| Resolution | "Infinite" | Analog amplification |
| Maximum operating pressure | 100 Bars (1,450 PSI) | |
| Operating Temperature | -4 to +176°F (-20 to +80°C) | Electronics |
| | -40 to +248°F (-40 to +120°C) | LVDT sensor |
| Operating pressure | 1,450PSI (100 bars) maximum | From o-ring to tip of probe |
| Certification | ATEX | |

Note: FSO (Full Scale Output) is the largest absolute value of the outputs measured at the ends of the stroke range

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