ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

TX-125

TX-Series Frequency signal Isolating Transducer



Overview

The ASHE TX series of Signal Conditioners, Isolators, Transducers and Transmitters comprise a wide range of high quality and reliable instruments for the conversion, amplification and isolation of analog and digital signals. The instruments accept standard industrial process input signals such as DC/AC Voltage, DC/AC Current, 4 to 20 mA DC, RTD Pt-100 sensor, Thermocouple sensor, Frequency [Pulse], Resistance, etc. and provide a buffered and isolated output with enhanced load driving capacity. The instruments find wide usage in single loop or distributed process measurement and control applications.

The new Series TX-125 Frequency signal Isolating Transducers measure pulse frequency signals and convert the signal into an isolated analog current loop signal of 4 to 20 mA DC [or as required]. The Output signal is linear with respect to the Input signal and is galvanically and optically isolated to a potential level of 3 KV RMS for one minute.

The instruments operate on 110 or 230 Volts AC mains power supply or 20 to 70 VDC Power Supply. Optional features include signal repeating (multiple isolated outputs], higher load driving capability, digital indication facility, control relay outputs, two-wire operation with auxiliary power output, etc.

The instruments are available in compact industrial grade enclosures in DIN Rail / Wall-mounting execution, or optionally in IP65 protected field mount weather-proof enclosure, or in CIMFR certified explosion-proof enclosures. Absence of any moving parts provides these instruments inherent advantage like immunity to mechanical shocks, dust, ambient temperature, humidity and corrosive atmosphere.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

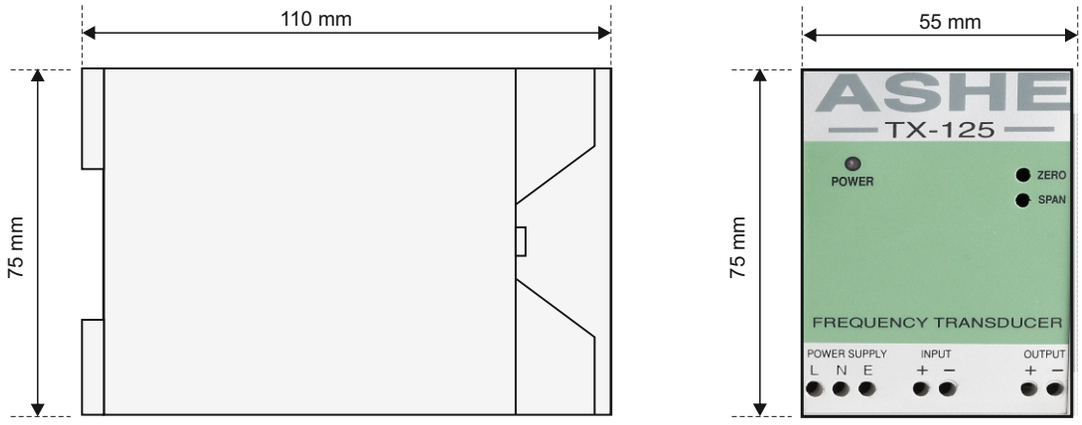
Model	ASHE TX-125.
Type	Frequency signal Isolating Transducer.
Principle	Optical Isolation, Signal Conditioning.
Input Signal	Any frequency from 0 to 10 kHz.
Output Signals	4 to 20 mA DC [or as required].
Load Driving Capacity	600 Ohms.
Linearity	± 0.1%.
Isolation	Between Input // Outputs // Power Supply.
Isolation Type	Optical and Galvanic.
Isolation Level	1.5 kV RMS for one minute.
Output Protection	Short / Open Circuit protection.
Calibration Facility	Zero and Span settings (external).
Accuracy	± 0.1%.
Indication	Red LED for Power On.
Power Supply	110 V AC or 230 V AC, 50 Hz. [Optionally 20 to 70 V DC].
Dimensions	75 x 55 x 110 mm. [H x W x D].
Execution	DIN-Rail / Rear panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.4 Kgs.
Operating Temperature	0 to 55°C.

Features

- Optical & Galvanic Isolation between Input, Outputs & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of multiple (upto two) isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- Digital Indication option with/without control relay outputs
- Auxiliary power for two-wire transmitters
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP66 execution
- Current limiting for I/O protection
- Customized outputs offered
- Two-year Performance Warranty
- Proven track record of successful site installations

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Dimensional Diagram



SIDE VIEW **FRONT VIEW**

How To Order

	FREQUENCY TRANSDUCER	**TX-125**					
	Configuration and add-on options						
1	**POWER SUPPLY**						
▸	AC Voltage, 110 VAC / 50 Hz		H				
▸	AC Voltage, 230 VAC / 50 Hz		A				
▸	DC Voltage		D				
2	**INPUT SIGNAL**						
▸	Frequency 0 to 10 KHz				F		
▸	Frequency (Other to be Specified)				Z		
3	**OUTPUT SIGNAL**						
▸	DC Current					L	
▸	DC Voltage					V	

Our Other Products



FLOW TOTALIZER | SIGNAL ISOLATORS & TRANSDUCERS | TEMPERATURE SCANNER | FLAMEPROOF INSTRUMENTS | STATIC POWER SWITCHES

Designed and Manufactured by :
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