2.2.5. Transmitter Input Module

Transmitter Input Module	
Model Name	**I-7014D**
Pictures	
Transmitter Input	
Channels	1
Wiring	Differential
Sensor Type	±150 mV, ±500 mV, ±1V, ±5 V, ±10 V, ±20 mA
Resolution	16-bit
★ Accuracy	±0.05%
★ Sampling Rate	10 Hz
Input Impedance	Voltage: 30 KΩ Currnet: 125 Ω
Isolated Loop Power	15 VDC, 30 mA
★ Overvoltage Protection	±15 V
Open Wire Detection	-
Digital Input	
Channels	1
Contact	Dry
Sink/Source (NPN/PNP)	Source
On Voltage Level	Close to GND
Off Voltage Level	Open
★ Counter (50 Hz, 16-bit)	Yes
Input Impedance	3 KΩ
Overvoltage Protection	±30 VDC
Digital Output	
Channels	2
Type	Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+3.5 ~ 50 VDC
Max. Load Current	30 mA/Channel
★ Power-on Value	Yes
★ Safe Value	Yes
System	
★ Dual Watchdog	Yes
ESD (IEC 61000-4-2)	-
EFT (IEC 61000-4-4)	-
Intra-Module Isolation, Field-to-Logic	3000 VDC
Power Input	10 ~ 30 VDC
Power Consumption	1.9 W

Virtual Channel to Channel Isolation

The "R" and "Z" version of analog input modules provide +/-400 VDC virtual channel to channel isolation to avoid the noise interference from adjacent channel in the industrial environment. To name a few of the modules, they are I-7017R, I-7017Z, I-7018R, I-7018Z, I-7019R, and I-7019Z. Though it is not real channel to channel isolation, there is only 1uA leakage current between two adjacent channels and the interference is very small and can be negligible.