Pulse Input Processor/FTA

Parameters	Specification
FTA Models	MU-TPIX12, TPIX52
Sensor Inputs	Self-powered 2-wire PM/APM/HPM-powered (with automatic current limiting) 3-wire Pulse voltage or contact input
Input Type	Rectangular or sine waves
Input Channels	8
Input Impedance	10 k Ω minimum
Input Frequency ⁽¹⁾ 50% Duty Cycle Square Wave Sine Waves	1 Hz to 20 kHz (all channels same amplitude) 1 Hz to 20 kHz
Pulse Levels Low High	-0.5 V to +1.9 V +3.5 V to +24 V (Hysteresis prevents change between 1.9 V and 3.5 V)
Pulse Width (On/Off Dwell) High and Low	25 μs minimum at 20 kHz (with IOP filter jumper in storage position) 50 μs minimum at 10 kHz (with IOP filter jumper in H position) 500 μs minimum at 1 kHz (with IOP filter jumper in L position)
Contact Current Low (0, Field contact closed) High (1, Field contact open)	23 mA maximum (with FTA Pullup) ⁽²⁾ 20 mA maximum (with FTA Pullup) ⁽²⁾
Contact Resistance Low (0, Field contact closed) High (1, Field contact open)	82 Ω maximum (with FTA Pullup) $^{(2)}$ 175 Ω minimum (with FTA Pullup) $^{(2)}$
Field Input Scan Rate	20 ms
AV Update Rate (Used for Totalizer Algorithm)	20 ms
PV Update Rate	500 ms for 8 channels
Rate Accuracy	±0.01% of input frequency, ±0.4 Hz (whichever is larger)
Rate Resolution	±0.4 Hz
Input Range (No Damage)	±30 V maximum
Transmitter Power Conditioning (for 3- wire connection) Open Circuit Voltage Full Load Short Circuit Current	23-25 Vdc 21 V @ 115 mA 150 mA maximum
 Sine waves must not be intermixed 50 M FTA cables with mixed signal 30 M FTA cables: frequency is 13 20 M FTA cables: frequency is 15 10 M FTA cables: frequency is 18 I 	I with square waves or contacts on the same FTA. amplitudes: frequency is 9 kHz maximum (55 μs minimum pulse width) kHz maximum (38 μs minimum pulse width) kHz maximum (33 μs minimum pulse width) kHz maximum (28 μs minimum pulse width) kHz maximum (25 μs minimum pulse width)

(2) 1 kΩ to 24 Vdc.