

APTER POWER ENGINEERING REFERENCE

MC-TPIX12

Pulse Input Field Termination Assembly

The MC-TPIX12 accepts field pulse trains and routes their frequency and count information into a TPS Process Manager pulse-input channel for speed, rate and totalization processing.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TPIX12
Part number	51304084-175
System family	TPS Process Manager I/O
Document	Product Technical Reference
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One verified model, one engineered configuration path.

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SCAN FOR PRODUCT & QUOTE

MC-TPIX12

1. Product Identity and System Role

The MC-TPIX12 accepts field pulse trains and routes their frequency and count information into a TPS Process Manager pulse-input channel for speed, rate and totalization processing.

System role

- Terminates pulse-producing field devices
- Feeds pulse data to the matched TPS pulse I/O processor
- Supports powered and self-powered sensor circuits
- Provides rate and totalization inputs for control strategies

Matched components

- TPS pulse input processor
- Pulse input power adapter
- Two-wire or three-wire pulse sensor
- FTA-to-IOP cable assembly

2. Technical Specifications

Parameter	Technical value
FTA model	MC-TPIX12
Part number	51304084-175
Input channels	8
Input frequency	1 Hz to 20 kHz
Input impedance	10 kOhm minimum
Pulse low level	-0.5 to +1.9 V
Pulse high level	+3.5 to +24 V
No-damage input	+/-30 V maximum
Field input scan	20 ms
PV update	500 ms for 8 channels
Rate accuracy	+/-0.01% of input frequency or +/-0.4 Hz
Transmitter supply	23 to 25 Vdc open circuit; 21 V at 115 mA
Country	USA
HS code	8537101190

3. Functions, Applications and Components

Core functions

- Terminates pulse-producing field devices
- Feeds pulse data to the matched TPS pulse I/O processor
- Supports powered and self-powered sensor circuits
- Provides rate and totalization inputs for control strategies

Industrial applications

- Turbine and compressor speed pickup channels
- Flowmeter pulse totalization
- Positive-displacement meter counting
- Packaging-line production counting

Compatible system components

- TPS pulse input processor
- Pulse input power adapter
- Two-wire or three-wire pulse sensor
- FTA-to-IOP cable assembly

4. Engineering Precautions and Source

Product precautions

- Select the input filter for the expected pulse rate.
- Keep pulse wiring separated from high-energy conductors.
- Confirm the sensor waveform crosses both stated logic thresholds.
- Verify rate and accumulated count independently during commissioning.

Manufacturer source

Honeywell TPS Process Manager I/O Specification and Technical Data
IO03-684 Rev. 2

RETURN-TO-SERVICE CHECK

Confirm model MC-TPIX12, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.