01 / Product and system dashboard

HONEYWELL

51304386-150 MC-PPIX02

Pulse input processor

Product role

Honeywell 51304386-150 MC-PPIX02 is an eight-channel conformally coated pulse-input processor for a matched Process Manager I/O and field-termination arrangement.

Field sensor
Pulse / contact signal

>

Matched FTA
Signal and power arrangement

>

MC-PPIX02
Rate and accumulated value

Engineering scope

Part 51304386-150 identifies MC-PPIX02. The stated pulse-input ratings describe the paired processor/FTA design; the MC variant adds conformal coating. Waveform, filter and cable conditions remain applicable.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Channels	8	High input level	+3.5 to +24 V
Coating	Conformal-coated MC design	Field-input scan	20 ms
Signal forms	Rectangular or sine wave; pulse voltage or contact	Accumulated-value update	20 ms
Sensor arrangement	Self-powered 2-wire or system-powered 3-wire	PV update	500 ms for 8 channels
Input impedance	10 kohm minimum	Rate accuracy	±0.01% of frequency or ±0.4 Hz, whichever is larger
Frequency range	1 Hz–20 kHz; waveform, filter and cable conditions apply	Rate resolution	±0.4 Hz
Low input level	-0.5 to +1.9 V	No-damage input limit	±30 V maximum

Configuration boundary

Match the complete hardware marking and installed configuration to the applicability stated in this product summary.

03 / Applications and system integration

Pulse rate measurement

Acquire supported pulse signals within the waveform, amplitude, cable and filter limits.

Accumulated-value processing

Use the 20 ms accumulated-value update in the configured totalizer application.

Contact sensing

Use the appropriate contact-input FTA configuration and verify its electrical conditions.

Conditioned transmitter integration

Match two-wire or three-wire sensing and the FTA power arrangement before applying field signals.

Functional context

The design has eight inputs with at least 10 kohm input impedance. Its specified range extends from 1 Hz to 20 kHz under the stated waveform, amplitude, filter and cable conditions. Square-wave low and high levels are -0.5 to +1.9 V and +3.5 to +24 V respectively. Sine waves must not be mixed with square waves or contacts on the same FTA; mixed amplitudes and longer FTA cables reduce the permitted maximum frequency.

04 / Service and installation decisions

Match coated identity

Retain 51304386-150 MC-PPIX02 and the installed processor/FTA configuration.

Keep waveform groups compatible

Do not mix sine-wave inputs with square waves or contacts on the same FTA.

Apply cable-dependent limits

Check FTA cable length and signal amplitude before applying the 20 kHz upper range.

Record filter positions

Preserve the installed filter selection and corresponding minimum dwell requirement.

Check voltage and power

Verify signal levels, transmitter power and input protection limits before connection.

Validate rate and totalizer

Use controlled signals to verify channel rate, accumulated value and configured alarms.

05 / Reference basis and related portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed. Request current support and replacement guidance using the complete 51304386-150 MC-PPIX02 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Honeywell TPS Process Manager I/O Specification and Technical Data, IO03-500, November 1997; HPM Planning, HP02-500, Release 530 Revision 05.

Apter Power technical summary. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Honeywell MU-KBFT02 80366198-200

Honeywell SPS5785 51198651-100

Honeywell 51305072-400

Discuss your installed configuration

Send the full unit marking and connection details.

sales13@apterpower.com | +86 18030235313