05704-A-0121

Quad Relay Card

Honeywell 05704-A-0121 is the four-channel SPCO relay interface card for the System 57 5704 control system.

PRODUCT SNAPSHOT

BRAND	**FAMILY**
Honeywell	System 57 5704
PART	**PRODUCT TYPE**
05704-A-0121	Quad Relay Card

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PRODUCT OVERVIEW

Honeywell 05704-A-0121 is the four-channel SPCO relay interface card for the System 57 5704 control system.

1. Provides four single-pole changeover relay outputs.
2. Interfaces alarm or control logic to external circuits.
3. Supports latching or non-latching relay operation.
4. Supports energized or de-energized coil logic.

SYSTEM COMPONENTS

- System 57 5704 card file
- Four external relay circuits
- Documented sensor or control card
- Cabinet and field grounding

TECHNICAL NOTE

Apply the published contact ratings only to non-inductive loads; assess suppression and derating for inductive circuits.

TECHNICAL DATA

PARAMETER	VALUE
Card function	Quad relay interface
Relay outputs	4 SPCO
Relay modes	Latching or non-latching
Coil logic	Energized or de-energized
AC contact rating	5 A at 110/250 Vac; non-inductive

PARAMETER	VALUE
DC contact rating	5 A at 32 Vdc; non-inductive
Typical power	1 W
Maximum power	1.7 W
Field terminal	2.5 mm2; 14 AWG

ENGINEERING NOTE

Apply the published contact ratings only to non-inductive loads; assess suppression and derating for inductive circuits.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Honeywell MC-TDOR62	TPS relay-output termination	**View Honeywell MC-TDOR62 page**
Honeywell MC-TPIX12 51304084-175	TPS pulse-input termination	**View Honeywell MC-TPIX12 51304084-175 page**
Honeywell MC-TSIM12 51303932-476	TPS serial-interface termination	**View Honeywell MC-TSIM12 51303932-476 page**
Honeywell MC-TAOY25 51305865-275	TPS analog-output termination	**View Honeywell MC-TAOY25 51305865-275 page**
Honeywell DC-TFB412	Series C redundant FIM IOTA	**View Honeywell DC-TFB412 page**
Honeywell MC-IOLX02	TPS remote I/O link extender	**View Honeywell MC-IOLX02 page**
Honeywell 10002/1/2	FSC control and I/O module	**View Honeywell 10002/1/2 page**
Honeywell 10014/F/F	FSC communication module	**View Honeywell 10014/F/F page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Gas alarm relay outputs

Provides four single-pole changeover relay outputs.

Shutdown interlock contacts

Interfaces alarm or control logic to external circuits.

Remote annunciation circuits

Supports latching or non-latching relay operation.

System 57 control interfaces

Supports energized or de-energized coil logic.

PRODUCT PRECAUTIONS

1. Confirm 05704-A-0121 and all four relay assignments.
2. Record normal coil state, latch mode and contact use.
3. Isolate relay circuits and cabinet power before work.
4. Check external circuits for inductive loads and stored energy.
5. Preserve terminal identity and cabinet grounding.
6. Apply contact ratings only within the documented conditions.
7. Exercise every changeover contact and alarm function.
8. Retain the witnessed relay and safety-response record.

ENGINEER FAQ

Q1 How many relays are provided by Honeywell 05704-A-0121?

The card provides four single-pole changeover relays.

Q2 Which relay operating modes are available on Honeywell 05704-A-0121?

The manual documents latching or non-latching operation and energized or de-energized coil logic.

Q3 What AC contact rating is documented for Honeywell 05704-A-0121?

The non-inductive rating is 5 A at 110 or 250 Vac.

Q4 What DC contact rating is documented for Honeywell 05704-A-0121?

The non-inductive rating is 5 A at 32 Vdc.

Q5 What power demand is listed for Honeywell 05704-A-0121?

The manual lists 1 W typical and 1.7 W maximum.

Q6 Which field conductor size is documented for Honeywell 05704-A-0121?

The field terminals accept up to 2.5 mm2 or 14 AWG.

Q7 Why must inductive loads be reviewed for Honeywell 05704-A-0121?

The published contact ratings are non-inductive, so suppression and derating may be required.

Q8 What completes commissioning of Honeywell 05704-A-0121?

Exercise all four changeover contacts, confirm latch and coil logic, and witness the connected alarm or shutdown response.

SOURCE Honeywell Analytics System 57 5704 Control System Manual | MAN0448 Issue 13

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