WESTINGHOUSE 5X00357G04

Enhanced SOE Contact Input Module

WESTINGHOUSE 5X00357G04 is a sixteen-channel Ovation enhanced sequence-of-events contact-input module with an isolated on-card 48 VDC wetting supply.

01	02	03	04
Sixteen dry-contact inputs	42-55 V open-contact wetting	1/8 ms event-tag resolution	Ground-fault and power-check functions

System position

Dry field contact	5X00357G04 wetting and isolation	SOE debounce and time tag	Ovation event buffer

Product and release scope

Exact identity	Engineering use	Verification boundary	Acceptance
WESTINGHOUSE 5X00357G04 is retained without shortening its suffix.	WESTINGHOUSE 5X00357G04 combines contact wetting, event detection and time tagging in one enhanced SOE module. Field wiring resistance, shared-return design, power-check channel and event-buffer behavior must be validated during commissioning.	Only exact-model or explicitly applicable family facts are populated.	Connections, configuration, function and safe response require recorded proof.

02 / CAPABILITY AND INTERFACE MAP

Verified technical matrix

Product class	Enhanced sequence-of-events contact-input module
Channel count	16
Input arrangement	Single ended; common return
Open-contact voltage	42-55 V
Closed-contact current	4-8 mA
Field power	On-card 48 VDC nominal wetting supply

Event-tag resolution	1/8 ms
Time-tag accuracy	1 ms to I/O-bus clock; 1/8 ms channel-to-channel
Response time	4.09 ms open-to-close; 4.13 ms close-to-open typical
Wiring resistance	100 ohms maximum for closed-contact recognition
Field insert	1C31238H01
Channel-to-bus isolation	Galvanically isolated

Interface architecture

Contact boundary	Wetting boundary	Event boundary	Controller boundary
Sixteen dry contacts and a common-return field circuit	Isolated on-card 48 VDC nominal supply	Debounce, transition qualification and time tagging	Present-state and event-buffer data on the Ovation I/O bus

Control path

Dry field contact	5X00357G04 wetting and isolation	SOE debounce and time tag	Ovation event buffer

Technical service focus

H1	H2	H3	H4
Sixteen dry-contact inputs	42-55 V open-contact wetting	1/8 ms event-tag resolution	Ground-fault and power-check functions

Use cases with controlled scope

Sequence-of-events recording	Protection-system status	Wetting-supply supervision	Ground-fault troubleshooting
Time-tags sixteen field-contact transitions for event reconstruction.	Captures ordered auxiliary-contact changes in monitored plant systems.	Allows one configured channel to prove the on-board supply.	Detects low-impedance paths between field conductors and earth.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
WESTINGHOUSE 5X00357G04 remains complete in purchasing, drawings and labels.	Installed position and surrounding hardware are verified before exchange.	Project data, jumpers, wiring and settings are recorded as applicable.	Functional and safe-state evidence is captured before release.

Installation decision points

1	2	3	4
Isolate field contacts and follow ESD controls before handling WESTINGHOUSE 5X00357G04.	Confirm the complete G04 identity and 1C31238H01 field insert.	Record all sixteen point assignments, common-return wiring and the configured power-check channel.	Do not connect any input or return conductor to earth ground.

System relationship

Dry field contact	5X00357G04 wetting and isolation	SOE debounce and time tag	Ovation event buffer

FAQ decision matrix

Engineering decision	Controlled response
How many contacts does WESTINGHOUSE 5X00357G04 monitor?	It monitors sixteen single-ended dry-contact inputs.
What wetting voltage is used by WESTINGHOUSE 5X00357G04?	The on-card supply provides 48 VDC nominal wetting, with 42 to 55 V documented at an open contact.
What current indicates a closed contact on WESTINGHOUSE 5X00357G04?	The documented closed-contact current is 4 to 8 mA.
What event-tag resolution does WESTINGHOUSE 5X00357G04 provide?	The module time-tags events at 1/8 ms resolution.

Eight release precautions

1 Isolate field contacts and follow ESD controls before handling WESTINGHOUSE 5X00357G04.	**2** Confirm the complete G04 identity and 1C31238H01 field insert.	**3** Record all sixteen point assignments, common-return wiring and the configured power-check channel.	**4** Do not connect any input or return conductor to earth ground.
5 Keep total closed-contact wiring resistance below the documented limit.	**6** Correct ground faults before accepting event data from the affected module.	**7** Test open and closed states and verify event timestamps against the synchronized I/O-bus clock.	**8** Prove power-check, ground-fault, bad-quality and event-buffer behavior before release.

Product verification and contact

Evidence applicability

Evidence record	Applicable scope
Ovation I/O Reference Manual OW350_R1150, Enhanced Compact SOE Digital Input G04 section	Supports only the exact-model or explicitly applicable family facts used in this document.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 5X00300G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00419G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00481G04	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 5X00357G04 Enhanced SOE Contact Input Module Verify the complete nameplate before installation.