1X00691H01

Installation and commissioning field guide

JOB SCOPE

Emerson 1X00691H01 is an Ovation 32-channel, 24 V DC high-side single-ended digital output personality module. It works with electronics module 5X00500G01 and the Ovation four-slot I/O base 5X00497G01.

Safe-work boundary

- Record the complete Emerson 1X00691H01 identity and all thirty-two channel assignments.
- Place the controller, auxiliary supply and connected loads in the approved maintenance state.
- Confirm that electronics module 5X00500G01 is the installed companion device.
- Verify the personality module is on the 5X00497G01 four-slot Ovation I/O base.

IDENTITY HOLD POINT

Verify the complete 1X00691H01 identity, 5X00500G01 electronics module, 5X00497G01 base and all thirty-two field assignments before work.

Installed-hardware record

- System family: Ovation distributed control system
- Module type: Digital output personality module
- Output channels: 32
- Output architecture: High-side, single-ended

Pre-installation readiness

Confirm the installed hardware and recorded interfaces

System family	Ovation distributed control system
Module type	Digital output personality module
Output channels	32
Output architecture	High-side, single-ended
Field voltage class	24 V DC
Paired electronics module	5X00500G01
Required I/O base	5X00497G01 four-slot Ovation I/O base
Per-channel current limit	500 mA

CONFIGURATION CONTROL

Use 1X00691H01 only in the documented Ovation four-slot I/O base arrangement. Retain the 500 mA per-channel and 2 A total-module current boundaries, the specified auxiliary fuse and the full channel acceptance record.

Controlled installation sequence

A traceable path from identification to connection

1. Record the complete Emerson 1X00691H01 identity and all thirty-two channel assignments.
2. Place the controller, auxiliary supply and connected loads in the approved maintenance state.
3. Confirm that electronics module 5X00500G01 is the installed companion device.
4. Verify the personality module is on the 5X00497G01 four-slot Ovation I/O base.
5. Do not install 1X00691H01 on excluded standard bases 1B30035H01, 1X00014H01 or 5X00334G01.
6. Check the 2.5 A fast-acting auxiliary fuse and field-supply wiring before energization.

CONNECTION VERIFICATION

The personality module must be installed on the Ovation four-slot I/O base 5X00497G01; the maintenance manual excludes standard bases 1B30035H01, 1X00014H01 and 5X00334G01. Before exchange, record the channel map, auxiliary supply and field-return arrangement. After installation, inspect the P, C, E and I diagnostics, then prove channels 1 through 32 without exceeding either the per-channel or total-module current limit.

Commissioning and acceptance

Verify each affected function before release

Identity	Record the complete Emerson 1X00691H01 identity and all thirty-two channel assignments.
Installation	Do not install 1X00691H01 on excluded standard bases 1B30035H01, 1X00014H01 or 5X00334G01.
Configuration	Check the 2.5 A fast-acting auxiliary fuse and field-supply wiring before energization.
Diagnostics	Keep each output at or below 500 mA and the complete module at or below 2 A.
Functional proof	Review P, C, E and I diagnostics and prove channels 1 through 32 before release.

Release record

- Record the final installed identity and companion hardware.
- Retain the restored configuration, diagnostic state and functional-test result.
- Release the affected circuit only after the approved acceptance plan is complete.

Handover and support

Final record, related products and direct contact

Manufacturer evidence used

- Emerson Process Management Maintaining Your Ovation System, OW360_R1007.
- Emerson Ovation hardware-maintenance section for 24 V DC high-side, single-ended digital output personality modules.
- Emerson Ovation base-compatibility, diagnostic and fuse tables for the 1X00691H01 assembly.

Verified related ApterPower product pages

Emerson FBM205-P0914XG	View exact product page
Emerson FSROC-EXP/EXP	View exact product page
Emerson KC3010X1-BA1 12P6762X062	View exact product page
Emerson KC3011X1-BA1 12P6749X042	View exact product page
Emerson KC4011X1-BW1	View exact product page
Emerson KC4011X1-BZ1	View exact product page

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