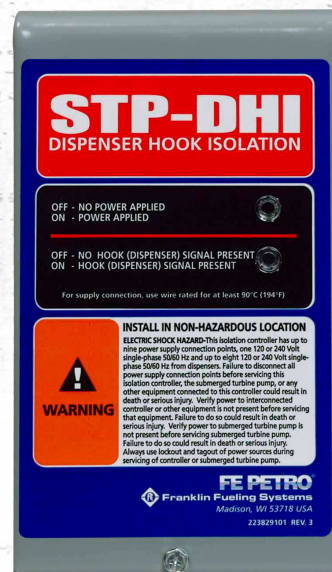


# DISPENSER HOOK ISOLATION

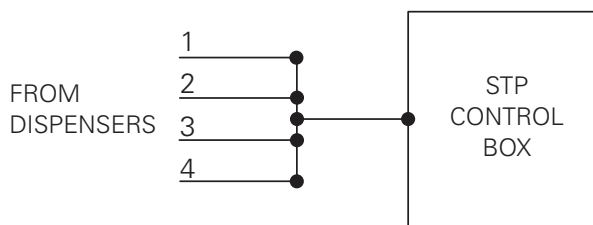
The FE PETRO® Dispenser Hook Isolation device prevents electrical feedback between dispenser hook circuits as required by most electrical codes.



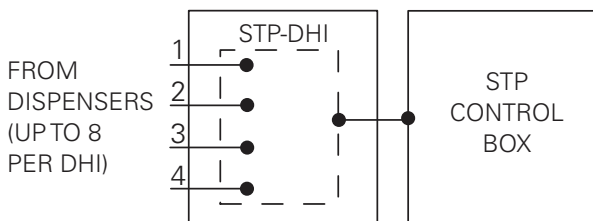
## HIGHLIGHTS

- Optically isolates inputs from up to eight dispensers preventing damage to dispenser relay boards caused by cross-phasing.
- Prevents electrical feedback between dispenser hook circuits during periods of maintenance and service as required by NEC 514-3, 2002 and other international codes.
- Can be supplied factory-wired in tandem with a smart controller or standard control box.
- Eliminates false STP run due to voltage leakage of multiple dispensers connected in parallel.
- Fuse-protected output to submersible pump controller.
- The STP-DHI/STP-DHIB can retrofit to any existing site.

### Conventional Wiring



### STP-DHI Wiring



## SPECIFICATIONS

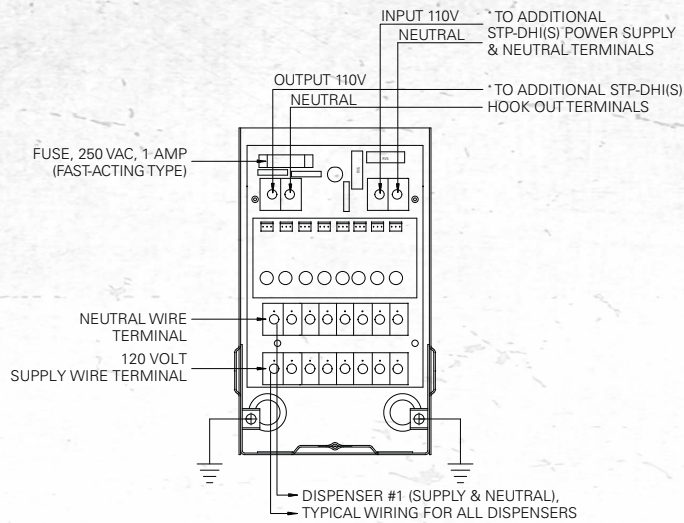
- Enclosure size: 8½" x 5" x 3" (215 mm x 127 mm x 76 mm).
- Eight optically isolated inputs from dispenser.
- One STP-DHI/STP-DHIB required per product grade for up to eight dispensers.
- STP-DHI: 120 V 30 V A input from supply, eight 120 V 10mA inputs from dispensers.
- STP-DHIB: 240 V 30 V A input from supply, eight 240 V 10mA inputs from dispensers.
- Output fuse rating: 250 V 1A, fast-acting.
- 300 Volt surge protection.
- Maximum ambient temperature rating: 120 °F.
- LEDs indicate when source power is applied and dispenser hook signals are present.
- Compatible with any submersible pump controller.

### Approvals/Certifications

- Consult factory for applicable approvals.
- Franklin Fueling Systems is an ISO 9001 Certified Manufacturer.

# SPECIFICATIONS

## Dispenser Hook Isolation Wiring



Wiring is polarity-sensitive when multiple units are connected together.

# ORDERING INFORMATION

## Dispenser Hook Isolation, 110 Volt



Model	Description
5800300100	STP-DHI, dispenser hook isolation for 110 Volt dispenser handle switches, up to eight each
402312931	STP-DHI + SPGC-220 Guardian Series™ Single-Phase Controller bundle (220 Volt supply, 110 Volt hook)

DHI models are compatible with FE PETRO® submersible pump controllers and competitive pump controller makes accepting 120 Volt dispenser hook signal.

DHI models can be connected together for products with more than eight dispenser handle inputs.

## Dispenser Hook Isolation, 240 Volt



Model	Description
5800300200	STP-DHIB, dispenser hook isolation for 240 Volt dispenser handle switches, up to eight each
402312932	STP-DHIB + SPGC-220 Guardian Series™ Single-Phase Controller bundle (220 Volt supply, 240 Volt hook)

DHIB models are compatible with FE PETRO® submersible pump controllers and competitive pump controller makes accepting 240 Volt dispenser hook signal.

DHIB models can be connected together for products with more than eight dispenser handle inputs.

## Dispenser Hook Isolation Repair Parts

Model	Description
223885901	DHI circuit board, 120 Volt dispenser hook signal
223885931	DHIB circuit board, 240 Volt dispenser hook signal
223243103	DHI fast-acting fuse, 250 VAC, 1 Amp