

Hot Surface Ignition

24VAC - 120VAC - 240VAC

HXUB Series

ULTRA LITER

IGNITION CONTROLS

FEATURES:

- Blower Relay
- Diagnostic LED Indicator Light
- Field Selectable 24V/120V/240V
- Multiple Tries For Ignition
- Case/Cover or Board with Stand Offs
- Custom Pre-Purge & Inter-Purge Timings
- Automatic One Hour Reset After Lockout
- Local or Remote Sense

APPLICATIONS:

- Infrared Heaters
- Pool/Spa Heaters
- Gas Fired Furnaces and Boilers
- Commercial Water heaters

DESCRIPTION

The model HXUB is a 24 or 120/240VAC Hot Surface ignition control for under 400K BTU applications. The microprocessor circuit design provides precise, repeatable timing and operating sequences. The on-board diagnostics with LED output provides assistance with troubleshooting to ensure a safe and efficient operation.

Full featured design with on board blower relay makes it the right choice for any gas fired appliance and works with both natural and LP gas.

APPROVALS

Software conforms to UL 1998 requirements
Designed to ANSI Z21.20 Standards



Model HXUB

Specifications

INPUT VOLTAGE	- 18-30VAC 50/60 Hz - Line: 24/120/240VAC (L1, L2 only)
CURRENT DRAW MAIN VALVE	2.0A @ 24VAC max
INPUT CURRENT DRAW	300mA @ 24VAC with blower & gas valve relays energized
HOT SURFACE ELEMENT	5.0A max @ 120VAC
OPERATING TEMPERATURE	-40F to 175F, -40C to +80C
COMBUSTION BLOWER RATNG (OPTIONAL)	3.0 FLA @120VAC/1.5 FLA @240VAC 1/4 HP Motor
FLAME SENSITIVITY	0.7uA Minimum
HOT SURFACE ELEMENT	5.0A max @120/240VAC
TYPES OF GAS	Natural, LP, or Manufactured
IGNITER	24/120VAC depends on model
SIZE (L x W x H)	5.69x3.94x1.87 inches, 14.42x10.0x4.75 cm
ENCLOSURE	Case/Cover or Bare Board with integral Stand Offs
MOISTURE RESISTANCE	CONFORMAL COATED TO 95% R.H. AVOID DIRECT EXPOSURE TO WATER
TRIES FOR IGNITION	One or Three Try Versions

ON BOARD DIAGNOSTICS

LOCKOUT MODE	LED INDICATION
Air Flow Failure	1 Flash
Ignition Failure	2 Flashes
Flame Lost	3 Flashes
MCU Failure or Flame Exists	4 Flashes

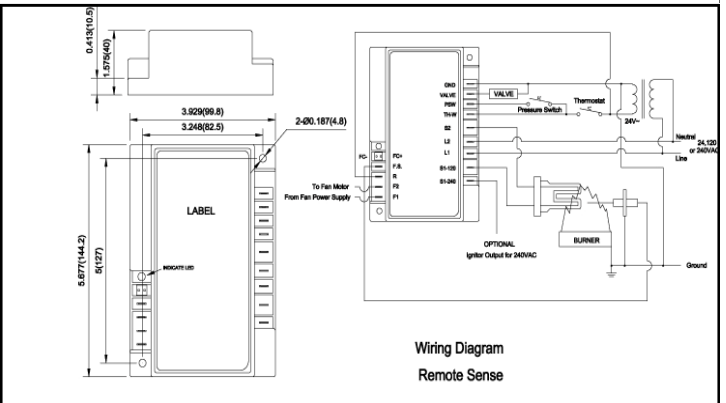
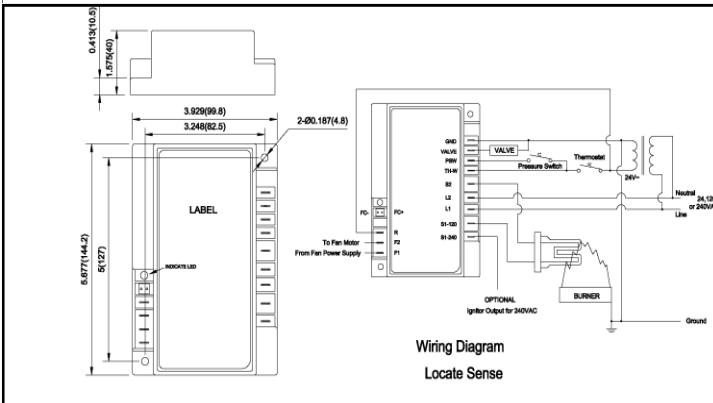
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Ordering Information

HXUB	X	X	X	X	-	X	X	X		DESCRIPTION
										<p>RESET METHODS AND ENCLOSURE</p> <p>2 = POWER OFF RESET - CASE/COVER 3 = AUTOMATIC RESET - CASE/COVER 4 = POWER OFF RESET - STAND OFFS WITH NO COVER 5 = AUTOMATIC RESET - STAND OFFS WITH NO COVER</p> <p>FLAME SENSING METHOD</p> <p>R = REMOTE SENSE L = LOCAL SENSE</p> <p>TRIAL FOR IGNITION</p> <p>1 = 7 SECONDS 2 = 10 SECONDS 5 = 40 SECONDS</p> <p>INTER-PURGE</p> <p>0 = NONE (Single Try Models Only) 1 = 15 SECONDS 2 = 30 SECONDS</p> <p>PRE-PURGE</p> <p>0 = NONE 1 = 15 SECONDS 2 = 30 SECONDS</p> <p>TRIES FOR IGNITION</p> <p>1 = SINGLE TRY - ONE HOUR AUTO RESET 2 = THREE TRIES - ONE HOUR AUTO RESET 3 = SINGLE TRY- NO ONE HOUR RESET 4 = THREE TRIES - NO ONE HOUR RESET</p> <p>INPUT VOLTAGE</p> <p>2 = 24VAC WITH COMBUSTION BLOWER RELAY (4 SEC HEAT UP) 3 = 120/240VAC WITH COMBUSTION BLOWER RELAY (40 SEC HEAT UP) 9 = SPECIAL OEM CONFIGURATION</p> <p>HXUB = HOT SURFACE IGNITION CONTROL UltraLiter Series</p>



DISCONNECT THE POWER SUPPLY BEFORE MAKING WIRING CONNECTIONS TO PREVENT ELECTRICAL SHOCK OR EQUIPMENT DAMAGE.

EXPLOSION HAZARD. CAN CAUSE INJURY OR EQUIPMENT DAMAGE.

Only trained professional gas appliance service technicians should install and check out this control.