Burner PRO

TECHNICAL SPECIFICATIONS

Supply Voltage: BP110UVF 110 VAC (+20%, -15%) 50/60Hz
BP230UVF 230 VAC (+10%, -15%) 50/60Hz

Power Consumption: 7 VA

Temperature Rating: Operating -40°C to +60°C (-40°F to 140°F)
Storage -50°C to +85°C (-58°F to 185°F)

Protection Category: IP44

Dimensions:
Control Unit: 4.15" (105mm) L x 4.15" (105mm) W x 5.0" (127mm) H
(with base)

Weight: 2.5 lbs (1.13kg)

The BurnerPRO provides the proper burner sequencing, ignition and continuous flame monitoring for commercial heating and process equipment firing oil and gas fuels. The system is designed for use in non-permanent operations that requires burner recycle at least once every 24 hours. Seven SMART LEDs provide current operating status and lockout information in the event of a safety shutdown.

60-2944-1
Wiring Base

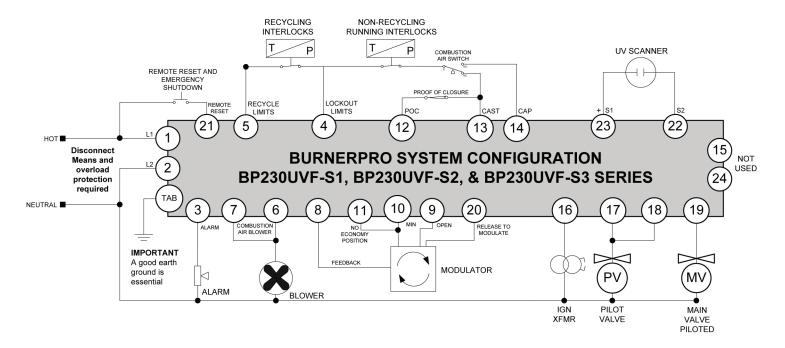Open base with terminal block and knockouts w/ grounding finger, 4.2"L x 4.2"W x 1.22"H

BurnerPRO
Flame Safeguard Control
(new installation version)

BurnerPRO
BP230UVF-S1
DATE CODE: 1503
ENG. CODE: 00
DERRY, NEW HAMPSHIRE
MADE IN USA
c UL us LISTED CE
FOR USE WITH UV FLAME SCANNER
UV1AL, UV90L, AND 35UV5
SEE BULLETIN BP-1001

fireye
United Technologies

The Combustion Control Specialists
3 Manchester Rd. • Derry, NH 03038 • USA
Tel: 603 - 432 - 4100 • Fax: 603 - 432 - 1570
www.fireye.com

EXAMPLE WIRING DIAGRAM FOR MODULATING BURNER w/ INTERMITTENT PILOT

BURNERPRO SYSTEM CONFIGURATION
BP230UVF-S1, BP230UVF-S2, & BP230UVF-S3 SERIES

RECYCLING INTERLOCKS — T P

NON-RECYCLING RUNNING INTERLOCKS — T P

COMBUSTION AIR SWITCH

UV SCANNER

REMOTE RESET AND EMERGENCY SHUTDOWN

PROOF OF CLOSURE

REMOTE RESET (21) · RECYCLE LIMITS (5) · LOCKOUT LIMITS (4) · POC (12) · CAST (13) · CAP (14) · + S1 (23) · S2 (22)

HOT ◼ L1 (1)

Disconnect Means and overload protection required

L2 (2)

NEUTRAL ◼ TAB

NOT USED (15) (24)

ALARM (3) · COMBUSTION AIR BLOWER (7) (6) · (8) · NO ECONOMY POSITION (11) · MIN (10) · OPEN (9) · RELEASE TO MODULATE (20) · (16) · (17) · (18) · (19)

IMPORTANT
A good earth ground is essential

ALARM

BLOWER

FEEDBACK — MODULATOR

IGN XFMR

PV — PILOT VALVE

MV — MAIN VALVE PILOTED

1. Pilot is on when burner is on.
2. MIN represents the LOW FIRE position.
3. OPEN represents the HIGH FIRE position.
4. POC represents Proof of Closure – otherwise known as Fuel Valve End Switch.
5. Recycling Interlocks are general one or more limits switches in series (High/Low gas pressure, Oil temperature, etc) that are used to stop the burner when the limit switch opens and restart when the limit switch recloses.
6. Non-Recycling Interlocks are general one or more limits switches in series (Low water, high pressure, air-flow, etc) that are used to stop the burner when the limit switch opens and prevent it from restarting until both the limit switch recloses and the manual/remote reset is activated.
7. CAST is defined as the Combustion Air Switch Test.
8. CAP is defined as the Combustion Air Prove.
9. Combustion Air Blower Terminals 6 & 7 are tied internally.