



760-401

# FLAME SENSORS & ELECTRODES

*Hot Surface Ignition and Cycle Pilot Flame Sensors and Electrodes.*

**FEATURES**

- Cycle Pilot Mercury Flame Sensors designed for 36C84 and 36C94 gas valves include adapters for competitive burners
- 30A46 styles designed for Cushioned Power and Silent Knight gas valves with plug-in receptacles
- 760-401 Universal Hot Surface Ignition Flame Sensors can be mounted remotely on multiple burners

**SPECIFICATIONS**

CSA/CUS Certificate Number ..... 1185540 (760 Series)

**760 SERIES FOR HOT SURFACE (HSI) AND CYCLE PILOT IGNITION**

DESCRIPTION	LEAD LENGTH	ELECTRICAL CONNECTION	MODEL NUMBER	ITEM NUMBER
Cycle Pilot Ignition Electrode and cable assembly with slip on bracket. Also includes perforated mounting strap for varying applications	24"	1/4" female spade quick disconnect terminal	760-56	07 60 56S1
Standard replacement for Hot Surface (HSI) Ignition. Can be mounted remotely on multiple burners	30"	1/4" female spade terminal	760-401	07 60 401S1
Exact OEM model replacement for Hot Surface (HSI) Ignition. Can be mounted remotely on multiple burners	30"	1/4" female spade terminal	760-802	07 60 802S1

**CYCLE PILOT MERCURY FLAME SENSORS**

DESCRIPTION	ELEMENT LENGTH	PANEL TYPE	BULB STYLE	MODEL NUMBER	ITEM NUMBER
Replaces bulb styles #17 or #18	48"	D	#20	3049-115 ①	30 49 115S1
Replaces bulb styles #9 or #13	48"	E	#19	3098-134 ①	30 98 134S1
Replaces bulb styles #17 or #18	48"	E	#20	3098-156 ①	30 98 156S1

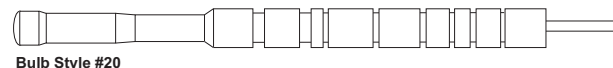
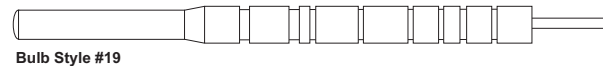
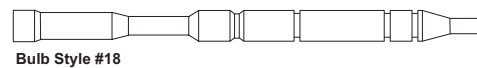
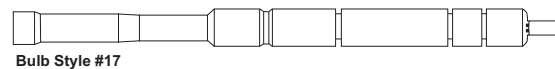
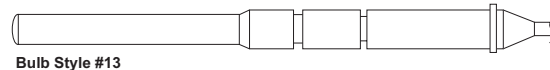
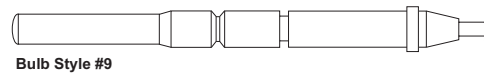
① Includes adapter fittings.

**MERCURY FLAME SENSORS**

DESCRIPTION	ELEMENT LENGTH	ELECTRICAL RATING 120 VAC	ELECTRICAL RATING 240 VAC	ELECTRICAL RATING 30 VAC	MODEL NUMBER	ITEM NUMBER
Mercury Flame Sensor with Screw Terminals	48"	125 VA	125 VA	90 VA	3046-5	30 46 005S1
*Plug-In Flame Sensor Stud mount element	48"	125 VA	125 VA	90 VA	30A46-5	30A46 005S1
*Plug-In Flame Sensor Sleeve mount element (no stud mount)	12"	125 VA	125 VA	90 VA	30A46-105	30A46 105S1

\* Plug-In sensors for "Cushioned Power" and "Silent Knight" Gas Valves with Plug-In Receptacle.

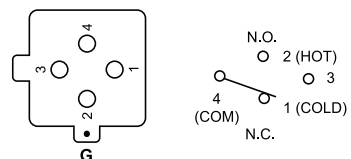
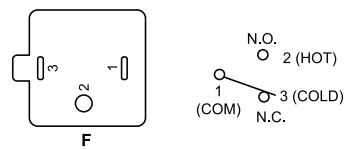
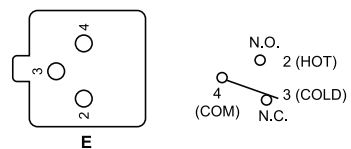
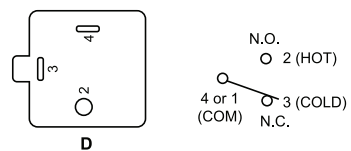
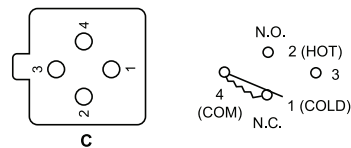
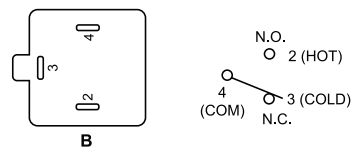
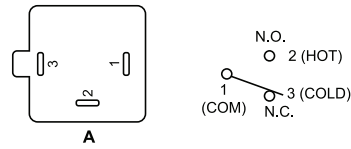
**FLAME SENSOR BULB DIAGRAMS**



**CONTRACTOR TIP:**

Mercury flame sensors can only be replaced by cross referencing the original mercury flame sensor model number. They can not be replaced by gas valve model number.

**TERMINAL PANELS CONFIGURATION**



**TYPES WITH SPADE TERMINALS CROSS REFERENCE**

O.E.M. NUMBER	ORIGINAL CAPILLARY LENGTH	ORIGINAL PANEL TYPES ①	SUGGESTED REPLACEMENT
3049-52	30"	B, D	3049-115
3049-54	30"	B	3049-115
3049-55	30"	A, D	3049-115
3049-66	30"	B	3049-115
3049-68	30"	B	3049-115
3049-105	42"	B	3049-115
3049-106	24"	D	3049-115
3049-107	12"	B, D	3049-115
3049-111	24"	B, D	3049-115
3049-112	18"	B, D	3049-115
3049-114	30"	D	3049-115
3049-115	48"	D	3049-115
3049-119	24"	B	3049-115
3049-120	30"	B	3049-115
3049-121	18 or 42"	B	3049-115

**PLUG-IN TYPES CROSS REFERENCE**

O.E.M. NUMBER	ORIGINAL CAPILLARY LENGTH	ORIGINAL PANEL TYPES ①	SUGGESTED REPLACEMENT
3098-111	30"	E	3098-134
3098-122	30"	E	3098-156
3098-126	30"	E	3098-156
3098-127	24"	E	3098-156
3098-130	24"	E	3098-156
3098-131	30"	E	3098-156
3098-134	48"	E	3098-134
3098-136	30"	E	3098-134
3098-141	48"	E	3098-134
3098-142	30"	E	3098-156
3098-143	36"	E	3098-156
3098-147	18"	E	3098-134
3098-149	24 or 42"	E	3098-156
3098-153	24"	E	3098-156
3098-156	48"	E	3098-156
3098-161	24 or 30"	E	3098-134
3098-165	48"	E	3098-134
3098-168	48"	E	3098-156
3098-169	27"	E	3098-134
3098-171	30 or 42"	E	3098-156
3094-174	36"	E	3098-156
3098-175	18"	E	3098-156
3098-182	24 or 42"	E	3098-156
3098-184	42"	E	3098-134

① Suggested replacement type may have different panel configuration. Some controls experienced modification. Determine proper wiring with the aid of panel diagrams A through G.