

INDUSTRIAL AUTOMATION PRODUCT

C7076A1015

Ultraviolet Flame Detector

Honeywell C7076A1015 is a self-checking ultraviolet flame detector for burner flame-safeguard systems. It senses burner UV radiation and supplies the signal to a compatible flame amplifier.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell burner flame safeguard
Part number	C7076A1015
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Supply	100 Vac
Frequency	50/60 Hz
Process connection	1 inch NPT
Lead	None
Ambient temperature	-40 to 160 degF
Shutter	Yes
Sensitivity	Adjustable
Compatible amplifiers	R7476A1007; R7886A1001

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	R7476A1007 or R7886A1001 amplifier
Companion hardware	7800 Series flame safeguard
Field connection	One-inch NPT sight pipe
Primary system function	Detects ultraviolet radiation from a burner flame
Controlled acceptance duty	Industrial burner flame proving

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System Role and Architecture

Honeywell C7076A1015 is a self-checking ultraviolet flame detector for burner flame-safeguard systems. It senses burner UV radiation and supplies the signal to a compatible flame amplifier.

FUNCTION 1

Detects ultraviolet radiation from a burner flame

FUNCTION 2

Uses a self-checking shutter for flame-safeguard supervision

FUNCTION 3

Feeds the compatible flame amplifier

FUNCTION 4

Supports adjustable detector sensitivity

Matched system components

- R7476A1007 or R7886A1001 amplifier
- 7800 Series flame safeguard
- One-inch NPT sight pipe
- 100 Vac detector supply

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	R7476A1007 or R7886A1001 amplifier
Companion hardware	7800 Series flame safeguard
Field connection	One-inch NPT sight pipe
Primary system function	Detects ultraviolet radiation from a burner flame
Controlled acceptance duty	Industrial burner flame proving

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Applications and Engineering Context

Industrial burner flame proving

Detects ultraviolet radiation from a burner flame

Boiler combustion supervision

Uses a self-checking shutter for flame-safeguard supervision

Furnace burner management

Feeds the compatible flame amplifier

Process-heater flame detection

Supports adjustable detector sensitivity

TECHNICAL NOTE

Mount the detector with an unobstructed flame view, keep detector wiring separated from ignition conductors and prove flame response plus self-check shutter operation through the safeguard controller.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	C7076A1015 / C7076A1015 recorded
Physical interface	R7476A1007 or R7886A1001 amplifier
Companion check	7800 Series flame safeguard
Functional proof	Detects ultraviolet radiation from a burner flame
Application test	Industrial burner flame proving

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Engineering Precautions

1

Verify the complete C7076A1015 marking and its assigned Honeywell burner flame safeguard position before work.

2

Isolate the energy associated with R7476A1007 or R7886A1001 amplifier before disconnecting C7076A1015.

3

Protect the C7076A1015 connectors and electronic assembly using approved ESD controls.

4

Record the as-found 7800 Series flame safeguard connections and configured assignment before replacement.

5

Confirm One-inch NPT sight pipe matches the approved installation record for C7076A1015.

6

Restore C7076A1015 under controlled conditions and review its model-specific diagnostics.

7

Complete a documented functional test for industrial burner flame proving before release.

CONFIGURATION VERIFICATION MATRIX

- | | |
|---------------------------------|---|
| ● INSTALLED POSITION | R7476A1007 or R7886A1001 amplifier |
| ● COMPANION HARDWARE | 7800 Series flame safeguard |
| ● FUNCTIONAL DUTY | Detects ultraviolet radiation from a burner flame |
| ● ACCEPTANCE APPLICATION | Industrial burner flame proving |

MANUFACTURER SOURCE RECORD

Honeywell C7076 Ultraviolet Flame Detector Reference Guide

70-8317-01

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