

CORE OVERVIEW

The Honeywell C7027A1049 Mini-Peeper is a compact ultraviolet (UV) flame detector designed to sense UV radiation emitted by gas, oil, or combination fuel flames in industrial and commercial burners. It is primarily used with Honeywell flame safeguard controls and primary safety controls to ensure automatic burner shutdown upon flame failure.

TECHNICAL SPECIFICATIONS

Parameter Name	Specification Value	Unit
Detection Type	Ultraviolet (UV)	—
Spectral Response Range	185 - 245	nm
Mounting Connection	1/2 inch NPT	—
Lead Wire Length	8	ft
Operating Temperature Range	-40 to 215 (-40 to 102)	°F (°C)
Enclosure Rating	NEMA 1	—
Wiring Connection	2-wire color-coded (Blue and Yellow)	—
Compatible Controls	Honeywell RM7800 series, R7849 UV amplifiers	—

KEY FEATURES & APPLICATIONS

Compact Design

Fits easily into tight burner sight pipe installations with 1/2" NPT mounting thread.

Multi-Fuel Sensing

Detects UV rays emitted by natural gas, LP gas, oil, and combination fuel flames.

Safety Assurance

Ensures rapid signal output to trigger safety shutdown upon flame outage.

VERIFICATION CHECKLIST

- Confirm 1/2" NPT sight pipe connection compatibility.
- Verify ambient temperature limits (-40°F to 215°F).
- Ensure compatibility with primary flame safeguard controls (e.g., RM7800 series / R7849 amplifier).
- Check lead wire length (8 ft) and color coding during installation.