

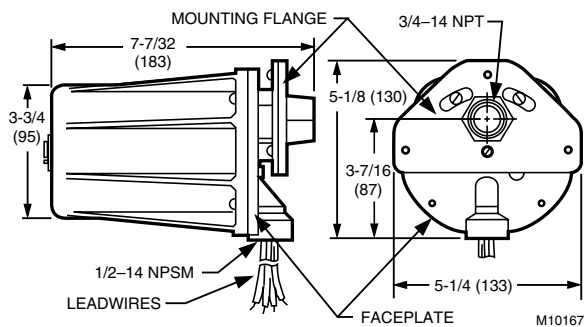
C7061 Dynamic Self-Check Ultraviolet Flame Detector



Dynamic self-checking flame detector used with R7861 Dynamic Self-check Amplifiers for sensing the ultraviolet radiation generated by the combustion of gas, oil, or other fuels.

- Oscillating shutter interrupts ultraviolet radiation reaching the UV sensor 12 times per minute to provide the UV sensor tube checking function. Amplifier circuitry components are checked from the microprocessor in the 7800 SERIES Control.
- Can be mounted horizontally, vertically or at any angle in between. The detector requires faceplate alignment and has integral locating reference points to assure proper operation of the shutter mechanism.
- Field replaceable ultraviolet radiation sensing tube and quartz viewing window.
- Treaded conduit fitting and color-coded leadwires allow rapid electrical installation.
- Two detectors can be wired in parallel to reduce nuisance shutdowns in difficult flame sighting applications.
- Incorporates UV sensor tube checking feature; used with R7861 Dynamic Self-check Amplifiers.
- Housing meets NEMA 4 enclosure standards.
- Protective heat block built into mounting flange.
- Swivel mount is available to facilitate flame sighting.
- -40 F (-40 C) rated ultraviolet sensing tube is available.

Dimension Diagrams



Application: Gas fired burners

Oil fired burners

Type: Ultraviolet, Purple Peeper, Self-Checking

Dimensions, Approximate: 5 1/4 in. diameter (includes mounting flange), 7 7/32 in. long

(133 mm diameter (includes mounting flange), 183 mm long)

Ambient Temperature Ratings: -40 F to 175 F (-40 C to 79 C)

Vibration Rating: —

Weight: 2.6 lb (1.2 kg)

Approvals:

Canadian Standards Association: Certified: Master Report LR95329-1

Factory Mutual: Approved: Report No. 14740.01

Industrial Risk Insurers: Acceptable

Underwriters Laboratories, Inc: Listed: File No. MP268, Guide No. MCCZ

Product Number	Electrical Connections	Lead Lengths		Mounting Method	NEMA Rating	Comments	Used With
		(inch)	(mm)				
C7061A1012	Color coded lead wires	8 ft.	2.4 m	3/4 in. NPT.	NEMA 4	Dynamic self-checking flame detector	Flame Amplifiers: R7861
C7061A1038	Brad Harrison type number 41310 connector	—	—	3/4 in. NPT.	NEMA 4	Dynamic self-checking flame detector	Flame Amplifiers: R7861
C7061A1046	Brad Harrison type number 41310 connector	—	—	1 in. NPT	NEMA 4	Dynamic self-checking flame detector	Flame Amplifiers: R7861
C7061F2001	Color coded lead wires	8 ft.	2.4 m	1 in. NPT	Explosion Proof	Dynamic self-checking flame detector	Flame Amplifiers: R7861