

# Flame Detectors

## C7061 Dynamic Self-Check Ultraviolet Flame Detector



- The detector requires faceplate alignment and has integral locating reference points to assure proper operation of the shutter mechanism.
- Field replaceable ultraviolet sensing tube and quartz viewing window.
- Models with threaded conduit fitting and color-coded leadwires allow rapid electrical installation.
- C7061A1038 or A1046 5 pin Brad Harrison type (formally 41307N) mating connector not supplied nor available through Honeywell.
- Two detectors can be wired in parallel to reduce nuisance shutdowns in difficult flame sighting applications.
- Protective heat block built into mounting flange.
- -40°F (-40°C) rated ultraviolet sensing tube is supplied.
- C7061E meets NEMA 4 standards with viewing window rated to 20 psi.
- C7061F has an explosion-proof housing for use in hazardous atmospheres with a viewing window rated to 100 psi.

**Type:** Ultraviolet, Purple Peeper, Self-Checking

**Application:** Gas fired burners; Oil fired burners

**Comments:** Dynamic self-checking flame detector

**Used With:** Flame Amplifiers: R7861

**Approvals, Underwriters Laboratories Inc.:** C7061A, M-Listed:

File No. MP268, Guide No. MCCZ; C7061F-Recognized: For use in hazardous locations, Class 1 Groups C and D; class 2, Groups E, F and G; File no. E34649

**Approvals, CSA:** Certified: Master Report LR95329-1

**Approvals, Swiss RE:** Acceptable

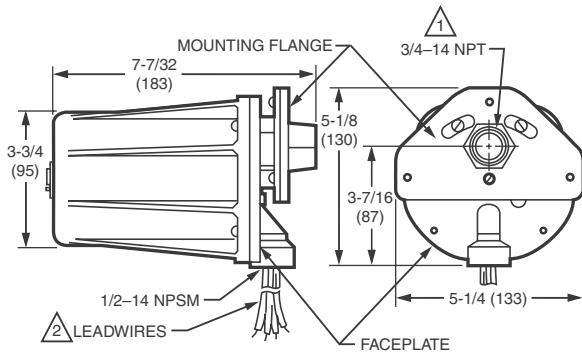
**Approvals, Factory Mutual:** Approved: Report No. 14740.01

**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 to provide the UV sensor tube checking function.
- Can be mounted horizontally, vertically or at any angle in between.

Material Number	NEMA Rating	Lead Length	Electrical Connections	Mounting	Electrical Ratings	Frequency	Ambient Temperature Range	Approvals, Others
C7061A1004/U	NEMA 4	77 in. (1981 mm)	PVC jacketed cable	3/4 in. NPT	120 Vac	50 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061A1012/U	NEMA 4	96 in. (2438 mm)	Color-coded leadwires	3/4 in. NPT	120 Vac	51 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061A1020/U	NEMA 4		Terminal block	3/4 in. NPT	120 or 230 Vac	52 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061A1038/U	NEMA 4		Brad Harrison type number 41310 connector	3/4 in. NPT	120 Vac	53 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061A1046/U	NEMA 4		Brad Harrison type number 41310 connector	1 in. NPT	120 Vac	54 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061A1053/U	NEMA 4	96 in. (2438 mm)	Color-coded leadwires	1 in. NPT	120 Vac	55 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061F1003	Explosion Proof		Terminal block	1 in. NPT	120 or 230 Vac	56 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	CE and conforms to EEXD IIc
C7061F2001/U	Explosion Proof	96 in. (2438 mm)	Color-coded leadwires	1 in. NPT	120 Vac	57 Hz; 60 Hz	-40°F to +175°F (-40°C to +79°C)	
C7061M1008/U	NEMA 4	96 in. (2438 mm)	Color-coded leadwires	1 in. NPT	120 Vac	58 Hz; 60 Hz	-4°F to +175°F (-20°C to +79°C)	
C7061M1016/U	NEMA 4		Brad Harrison type number 41310 connector	1 in. NPT	120 Vac	59 Hz; 60 Hz	-4°F to +175°F (-20°C to +79°C)	

Dimensions for C7061A in inches (millimeters)

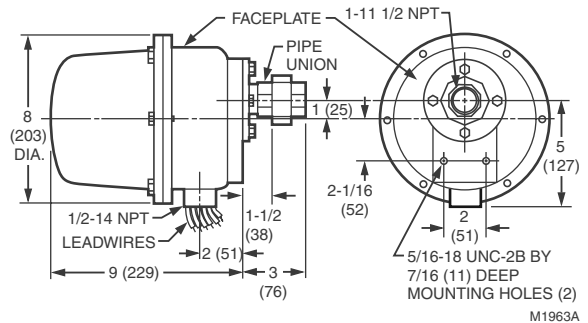


① C7061A1046, C7061A1053: INCH NPT

② C7061A1038 AND C7061A1046: TYPE CONNECTOR.

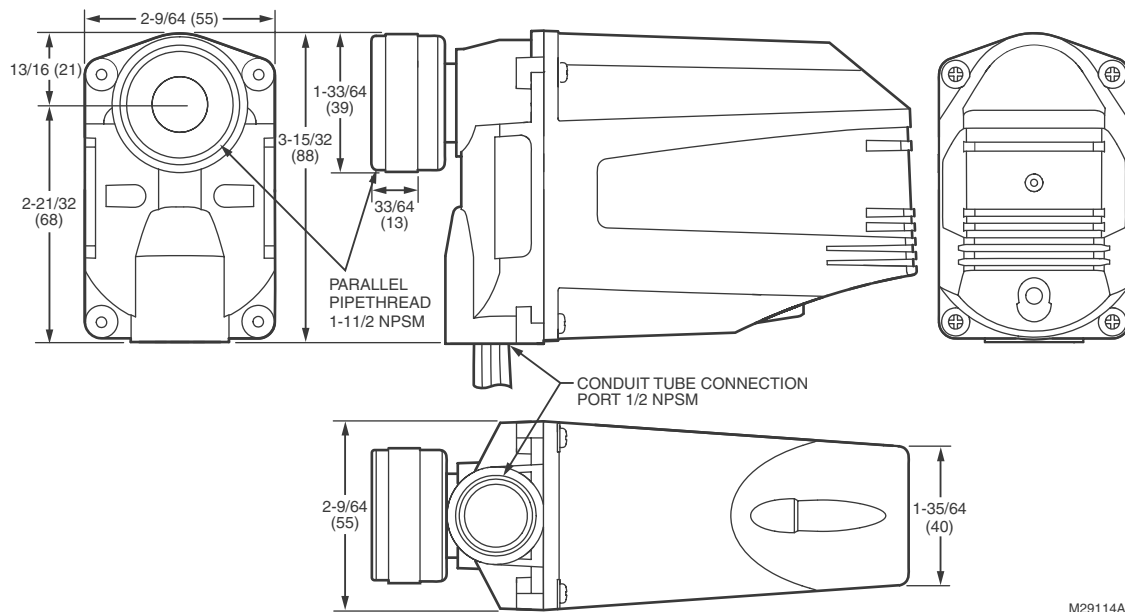
M10167D

Dimensions for C7061F in inches (millimeters)



M1963A

## Dimensions for C7061M in inches (millimeters)



M29114A