

## **DtiCorp.com Is Introducing 8 Honeywell C7061 Flame Sensors**

*Honeywell C7061 - 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.*

August 10, 2010 (FPRC) -- Popular Honeywell online retailer DtiCorp.com (<http://www.DtiCorp.com>) is introducing 8 Brand New Honeywell C7061 Flame Sensors. 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. The C7061A is a dynamic self-checking flame detector for sensing the ultraviolet radiation generated by the combustion of gas, oil, or other fuels. This flame detector is available in two versions: model C7061A for use in Standard applications, and model C7061F for use in installations requiring explosion-proof packaging. The flame detector is designed for use with either, R7061 Dynamic Self-Check Ultraviolet amplifier and R4348 Flame Switch or R7861A Dynamic Self-Check Ultraviolet amplifier and 7800 SERIES Burner Programmers. These configurations provide a closed-loop, self-checking circuit which insures the integrity of both amplifier and flame detector. Improper response simulated flame loss results in a safety shutdown and/or alarm.

### Features:

- 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.
- 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.
- Minus 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.

### Specifications:

- Models

C7061A: Self checking UV flame detector in standard housing.

C7061F: Self checking UV flame detector in explosion proof housing. Designed for use with either R7061 Dynamic Self-Check Ultraviolet amplifier and R4348 Flame Switch or with R7861A Dynamic Self-Check Ultraviolet amplifier and 7800 SERIES Burner Programmers

- Ambient Operating temperature ratings

C7061A: -40°C to +70°C (-40°F to +160°F)“(derate ambient 1°F for every 13°F of aspirator temperature over 160°F).

C7061F: -20°C to +70°C (-22°F to +160°F)

- Storage temperature ratings:

Minus 51°C to +85°C (-60°F to +185°F)

- Voltage and Frequency:

C7061A1004 120 VAC, 50/60 Hz

C7061A1020 115/230 VAC, 50/60 Hz

C7061F1003 115/230 VAC, 50/60 Hz

The System operates correctly at a nominal voltage (-15%, +10%), 50/60 Hz.

- Flame Signal:

Measured at the flame current meter jack.

C7061 Detector: 1.4 to 5.5 micro amps (nominal).

R7061A Amplifier: 2.5 to 5.5 micro amps (nominal).

R7861A Amplifier: 1.25 to 5.0 Volts (On keyboard display module).

- Flame Signal amplifier:

R7061A Dynamic Self-Check Ultraviolet amplifier

R7861A Dynamic Self-Check Ultraviolet amplifier

- Interchangeability:

Models C7061A and C7061F are not interchangeable with other flame detector models.

- Shutter frequency:

0.2 Hz, nominal (when used in combination with 7800 SERIE).

Interrupts the line-of-sight of the detector about 12 times per minute to provide self-checking. Any malfunction in the flame detection system results in a safety shutdown. 1Hz nominal when used with R4348 in combination with R7061 amplifier.

- Pressure rating of quartz viewing window:

C7061A: 138 kPa (20 psi) maximum.

C7061F: 690 kPa (100 psi) maximum

- Enclosure

C7061A: Meets IP66 enclosure requirements (indoor, outdoor protection; rain-tight, dust-tight, hosedirected water). Optional water jacket available.

C7061F: IP65 according to DIN 40050

- Weight

C7061A: 3.3 kg (7.3 lb)  
C7061F: 6.3 kg (13.9 lb)

- Mounting and orientation

C7061A : Mounting flange with 3/4 inch NPT internal threads for attaching to sight pipe.

C7061F: Mounting flange with 1 inch NPT internal threads for attaching to sight pipe.

- Wiring Connections

C7061A1004: NEC Class 1 color coded leadwire.

Length: 8 ft (2.4m).

C7061A1020: Terminal block.

Threaded leadwire opening in faceplate:

1/2-14 NPSM internal threads for attaching conduit.

One brass cable gland standard with housing.

- Serviceability:

Field replaceable viewing window and ultraviolet sensing tube, coil and shutter assembly.

- Maximum cable length:

300 meter between sensor and amplifier

- Approvals:

Underwriters Laboratories Inc. Listed.

Canadian Standards Association Certified: Master File LR95329-1.

Factory Mutual Approved: 14740.01.

Industrial Risk Insurers Acceptable.

Models available:

1. C7061A1004, 120 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking
2. C7061A1012, 120 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking
3. C7061A1020, 120 or 230 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking
4. C7061A1038, 120 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking
5. C7061A1046, 120 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking
6. C7061A1053, 120 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking
7. C7061F1003, 120/230 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking, Explosion Proof

8. C7061F2001, 120 Vac Flame Sensor, Ultraviolet, Purple Peeper, Self-Checking, Explosion Proof

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