## Honeywell

## THE FIRING LINE Honeywell Flame Sensors (Scanners) Cross Reference

### **CROSS REFERENCE**

| НО            | NEYWELL  |         |   |       | FIREYE™  |         |   | VIGITRON            |          |         |
|---------------|----------|---------|---|-------|----------|---------|---|---------------------|----------|---------|
| Visible Light |          |         |   | 48PT1 | Table 15 | page 14 |   | 9501                | Table 18 | page 16 |
| C7003         | Table 1  | page 2  |   | 48PT2 | Table 15 | page 14 |   |                     | •        | •       |
| C7010         | Table 2  | page 2  |   | 45AM1 | Table 10 | 222 11  |   |                     |          |         |
| C7013         |          |         |   | 45CM1 | Table 16 | page 14 |   | BARBER CO           | OLEMAN   |         |
| C7014         | Toble 2  | 2000    |   | UV-1  |          |         |   | 1291                | Table 18 | page 16 |
| Q174          | Table 3  | page 3  |   | UV-2  | 1        |         |   | 1292                | Table 19 | page 17 |
| Q231          |          |         |   | UV-6  | Table 17 | 222 15  |   |                     | ·        | l       |
| Infrared      |          | 1       |   | UV-7  | Table 17 | page 15 |   |                     |          |         |
| C7015         | Toble 4  |         |   | 45UV2 | 1        |         |   | <b>PYRONICS</b>     |          |         |
| Q283          | Table 4  | page 4  |   | 45UV3 | 1        |         |   | 4350                | Table 19 | page 17 |
| C7915         | Table 5  | page 5  |   | 45UV1 |          |         | - |                     | ·        | l       |
| Ultraviolet   |          | 1       |   | 45UV5 | Table 18 | page 16 |   |                     |          |         |
| C7012         | Table 6  | page 6  |   | 45RM1 | Table 10 | page 10 |   | PROTECTION CONTROLS |          |         |
| C7020         | Table 7  | page 9  |   |       |          | I       |   | P-CI                | Table 10 | 222 17  |
| C7024         | Table 8  | page 10 |   |       |          |         |   | P-CII               | Table 19 | page 17 |
| C7027         | Table 9  | page 10 |   |       |          |         |   |                     | •        | •       |
| C7035         | Table 10 | page 11 |   |       |          |         |   |                     |          |         |
| C7044         | Table 9  | page 10 |   |       |          |         |   |                     |          |         |
| C7061         | Table 12 | page 12 |   |       |          |         |   |                     |          |         |
| C7076         | Table 14 | page 13 | 1 |       |          |         |   |                     |          |         |
| C7927         | Table 11 | page 11 | 1 |       |          |         |   |                     |          |         |
| C7961         | Table 13 | page 12 | 1 |       |          |         |   |                     |          |         |

Table 1. C7003 RECTIFYING PHOTOCELL AND MOUNT CROSS REFERENCE.

|                          |                                     | Function                        | s of Device to be Replaced   |  |
|--------------------------|-------------------------------------|---------------------------------|--|--|
| Device to be<br>Replaced | Current <sup>①</sup><br>Replacement | Pipe Mounting<br>Size NPT (in.) | Used With  | Comments   |
| C7003A1005               | None <sup>①</sup>                   | 2                               |  |  |
| C7003A1013               | None <sup>①</sup>                   | 2                               | All rectification type amplifiers and primaries. (Uses 38316 Photocell.) | Less finned casting and less removable glass window. |
| C7003A1021               | None <sup>①</sup>                   | 2                               |  | International model.                                 |

① A possible solution would be to update to a 7800 Series replacement using the R7852B amplifier and the visible light detector C7962B.

### Table 2. C7010 RECTIFYING PHOTOCELL AND MOUNT CROSS-REFERENCE.

|                          |                        | Function                        | s of Device to be Replaced   |                            |
|--------------------------|------------------------|---------------------------------|--|----------------------------|
| Device to be<br>Replaced | Current<br>Replacement | Pipe Mounting<br>Size NPT (in.) | Used With  | Comments                   |
| C7010A1006               | None <sup>①</sup>      | 1-1/4                           |  |                            |
| C7010A1014               | None <sup>①</sup>      | 1-1/4                           | All rectification type amplifiers and primaries. (Uses 38316 Photocell.) | International model.       |
| C7010A1022               | None <sup>①</sup>      | 1-1/4                           | ·  | Fungus-proof. <sup>②</sup> |

① A possible solution would be to update to a 7800 Series replacement using the R7852B amplifier and the visible light detector C7962B

<sup>&</sup>lt;sup>②</sup> Fungus-proofing is not a current option.

Table 3. C7013 AND C7014 RECTIFYING PHOTOCELL AND MOUNT CROSS REFERENCE (ALSO INCLUDES INFORMATION ON Q174 AND Q231)

| Device to be | Current <sup>①</sup> | Specifications | of Device to           | be Replaced              |   |
|--------------|----------------------|----------------|------------------------|--------------------------|---|
| Replaced     | Replacement          | With Housing   | With Lens <sup>②</sup> | With Filter <sup>②</sup> | Comments  |
| C7013A1003   | None <sup>①</sup>    | Yes            | No                     | No                       | _   |
| C7013A1011   | None <sup>①</sup>    | Yes            | No                     | Yes                      | _   |
| C7013A1029   | None <sup>①</sup>    | Yes            | Yes                    | No                       | _   |
|              |                      |                |                        |                          |   |
| C7014A1002   | None <sup>①</sup>    | No             | No                     | No                       | _   |
| C7014A1010   | None <sup>①</sup>    | No             | No                     | No                       | 6-32 NC screw instead of Rajah connector.                             |
|              |                      |                |                        |                          |   |
| Q174A1002    | None <sup>①</sup>    | Yes            | No                     | No                       | Old OS number of C7013.   |
| Q174A1010    | None <sup>①</sup>    | No             | No                     | No                       | Old OS number of C7013.   |
|              |                      |                |                        |                          |   |
| Q231A1000    | None <sup>①</sup>    | No             | No                     | No                       | Old OS number of C7014.   |
| Q231A1018    | None <sup>①</sup>    | No             | No                     | No                       | Old OS number of C7014. No. 6-32 NC screw instead of Rajah connector. |

① A possible solution would be to update to a 7800 Series replacement using the R7852B amplifier and the visible light detector C7962B.

<sup>&</sup>lt;sup>2</sup> Photocell part no. 38316, filter and lens holder, part no. 38570, filter part no. 38576, or lens part no. 121610 are no longer available.

Table 4. C7015 INFRARED FLAME DETECTOR CROSS REFERENCE (ALSO INCLUDES INFORMATION ON Q283)

|                          |                                      | Spe                                | cifications             | of Device | to be Repla         | ced       |  |
|--------------------------|--------------------------------------|------------------------------------|-------------------------|-----------|---------------------|-----------|--|
| Device to be<br>Replaced | Current Replacement ① ⑦              | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(in.) | Orifice   | Collimating<br>Lens | Cell Type |  |
| C7015A1001               | C7915A1010 <sup>3 5</sup>            | 3/4                                | 30                      | No        | No                  | None      | _  |
| C7015A1019               | C7915A1010 <sup>3 5</sup>            | 3/4                                | 30                      | No        | Yes                 | None      | _  |
| C7015A1027               | C7915A1028 3 4 5 6                   | 3/4                                | 48                      | No        | No                  | None      | _  |
| C7015A1035               | C7915A1028 3 4 5 6                   | 3/4                                | 48                      | No        | Yes                 | None      | _  |
| C7015A1043               | C7915A1036 <sup>3 5</sup>            | 3/4                                | 96                      | No        | No                  | None      | _  |
| C7015A1050               | C7915A1036 <sup>3 5</sup>            | 3/4                                | 96                      | No        | Yes                 | None      | _  |
| C7015A1068               | Not Released                         | 3/4                                | 96                      | No        | No                  | None      | _  |
| C7015A1076               | C7915A1010 <sup>3 5</sup>            | 3/4                                | 30                      | Yes       | Yes                 | (B) type  | _  |
| C7015A1084               | C7915A1010 <sup>3 5</sup>            | 3/4                                | 30                      | No        | Yes                 | (D) type  | With rubber gasket (part no. 114465).                |
| C7015A1092               | C7915A1036 <sup>3 5</sup>            | 3/4                                | 96                      | Yes       | Yes                 | (C) type  | _  |
| C7015A1100               | C7915A1010 <sup>3 5</sup>            | 3/4                                | 30                      | Yes       | Yes                 | (B) type  | With 3/4 in. x 1/2 in. bushing adapter. <sup>®</sup> |
| C7015A1118 <sup>②</sup>  | C7915A1044 <sup>② ③</sup>            | 3/4                                | 48                      | No        | Yes                 | (D) type  | Proprietary to Cleaver Brooks.                       |
| C7015A1126               | C7915A1028 3 4 5 6                   | 3/4                                | 48                      | Yes       | Yes                 | (D) type  | With heat block, rubber gasket (part no. 114465) 4 6 |
| C7015A1134               | Not Released                         |                                    |                         |           |                     |           |  |
| C7015A1142               |                                      | 3/4                                | 48                      | No        | No                  | (C) type  | With heat block. <sup>4</sup>                        |
| C7015A1150               | Not Released                         |                                    |                         |           |                     |           |  |
| C7015A1167               | C7915A1044 <sup>23</sup>             | 3/4                                | 48                      | No        | Yes                 | (B) type  | Proprietary to Cleaver Brooks.                       |
| Q283A1001                | C7915A1010 <sup>3</sup> <sup>5</sup> | 3/4                                | 30                      | No        | No                  | None      | Old OS number of C7015.                              |
| Q283A1019                | C7915A1010 <sup>3</sup> 5            | 3/4                                | 30                      | No        | Yes                 | None      | Old OS number of C7015.                              |
| Q283A1027                | C7915A1028 <sup>345</sup> 6          | 3/4                                | 48                      | No        | No                  | None      | Old OS number of C7015.                              |
| Q283A1035                | C7915A1028 <sup>3456</sup>           | 3/4                                | 48                      | No        | Yes                 | None      | Old OS number of C7015.                              |
| Q283A1043                | C7915A1036 <sup>3</sup>              | 3/4                                | 96                      | No        | No                  | None      | Old OS number of C7015.                              |
| Q283A1050                | C7915A1036 <sup>3 5</sup>            | 3/4                                | 96                      | No        | Yes                 | None      | Old OS number of C7015.                              |

<sup>1</sup> Perform pilot turndown test.

<sup>&</sup>lt;sup>②</sup> Available from proprietary OEM only.

<sup>&</sup>lt;sup>③</sup> Replacements have 32007255-001 Lead Sulfide Infrared Cell.

<sup>&</sup>lt;sup>(4)</sup> Replacement includes Heat Block part number 105061 and Reducer Bushing part number 390427.

<sup>&</sup>lt;sup>⑤</sup> Replacement includes Orifice and Collimating Lens part number 50019469-001.

<sup>&</sup>lt;sup>®</sup> Part no. 390427 for replacing Fireye™ Lead Sulfide Infrared Detectors.

<sup>&</sup>lt;sup>⑦</sup> When using the replacement suggestion, the system MUST be updated to a 7800 Series replacement using the R7852B amplifier.

### Table 5. C7915 INFRARED FLAME DETECTOR CROSS REFERENCE.

|                          |                       | Spe                                | cifications             | s of Devic | e to be Repla                    | ced       |   |
|--------------------------|-----------------------|------------------------------------|-------------------------|------------|----------------------------------|-----------|---|
| Device to be<br>Replaced | Current Replacement ① | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(in.) | Orifice    | Collimating<br>Lens <sup>4</sup> | Cell Type |   |
| C7915A1002               | Not Released          | 3/4                                |                         |            | Yes                              | 1         |   |
| C7915A1010               | C7915A1010            | 3/4                                | 30                      | Yes        | Yes                              | 1         | Requires Flame amplifier R7852.   |
| C7915A1028               | C7915A1028            | 3/4                                | 48                      | Yes        | Yes                              | 1         | With Heat Block and reducer bushing. Requires Flame amplifier R7852. 23 |
| C7915A1036               | C7915A1036            | 3/4                                | 96                      | Yes        | Yes                              | 1         | Requires Flame amplifier R7852.   |
| C7915A1044               | C7915A1044            | 3/4                                | 48                      | No         | Yes                              | 1         | Proprietary to Cleaver Brooks. With Heat Block and reducer bushing. ② ③ |

① Includes Cell part number 32007255-001
 ② Heat Block (part number 105061)
 ③ Part no. 390427 for replacing Fireye™ Lead Sulfide Infrared Detectors.

<sup>&</sup>lt;sup>4</sup> Collimating lens part number 50019469-001

### Table 6. C7012 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                           |                             | Specificat                         | ions of De                  | vice to be Re      | placed         |         |   |
|--------------------------|---------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------|----------------|---------|---|
| Device to be<br>Replaced | Current<br>Replacement    | Voltage/<br>Frequency<br>HZ | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter | Comments                                      |
| C7012A1004               | C7012A1145                | 120/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1012               | C7012A1186                | 208/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1020               | C7012A1194                | 240/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1038               | C7012A1145                | 120/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1046               | C7012A1186                | 208/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1053               | C7012A1194                | 240/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1061               | C7012A1145                | 120/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1079               | C7012A1186                | 208/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1087               | C7012A1194                | 240/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1095               | C7012A1145 <sup>3</sup>   | 120/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | With 60 psi window. International model.      |
| C7012A1103               | C7012A1145                | 120/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | International model.                          |
| C7012A1111               | C7012A1186 <sup>①</sup>   | 208/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | Fungus-proof                                  |
| C7012A1129               | C7012A1194 <sup>①</sup>   | 240/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | Fungus-proof                                  |
| C7012A1137               | C7012A1152                | 120/50,60                   | 1                                  | 8/96                        | 25 to 135          | No             | No      | _   |
| C7012A1145               | C7012A1145                | 120/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | _   |
| C7012A1152               | C7012A1152                | 120/50,60                   | 1                                  | 8/96                        | 25 to 175          | Yes            | No      | _   |
| C7012A1160               | C7012A1160                | 120/50,60                   | 1                                  | 8/96                        | -40 to 175         | Yes            | No      | _   |
| C7012A1178               | C7012A1194 <sup>①</sup>   | 240/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | Fungus-proof                                  |
| C7012A1186               | C7012A1186                | 208/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | _   |
| C7012A1194               | C7012A1194                | 240/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | _   |
| C7012A1202               | C7012A1202                | 100/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | International model.                          |
| C7012A1210               | C7012A1210                | 120/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | With 113228J uv tube. Yamatake model          |
| C7012B1002               | C7012A1160 <sup>②</sup>   | 120/50,60                   | 1                                  | 8/96                        | -40 to 175         | No             | No      | _   |
| C7012C1000               | C7012C1042 <sup>④ ⑨</sup> | 120/50,60                   | 1                                  | 8/96                        | 45 to 135          | No             | No      | Explosion-proof housing.                      |
| C7012C1018               | None                      | 120/50,60                   | 1                                  | 8/96                        | 45 to 135          | No             | No      | Explosion-proof housing. International model. |
| C7012C1026               | None                      | 208/50,60                   | 1                                  | 8/96                        | 45 to 135          | No             | No      | Explosion-proof housing. International model. |
| C7012C1034               | C7012C1042 <sup>④</sup>   | 120/50,60                   | 1                                  | 8/96                        | 45 to 135          | No             | No      | Explosion-proof housing.                      |
| C7012C1042               | C7012C1042                | 120/50,60                   | 1                                  | 8/96                        | 25 to 175          | Yes            | No      | Explosion-proof housing.                      |

|                           |                           |                             | Specificat                         | tions of De                 | vice to be Re      | placed         |           |  |
|---------------------------|---------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------|----------------|-----------|--|
| Device to be<br>Replaced  | Current<br>Replacement    | Voltage/<br>Frequency<br>HZ | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter   | Comments   |
| C7012C1059                | None                      | 120/50,60                   | 1                                  | 8/96                        | 25 to 175          | Yes            | No        | Explosion-proof housing. International model.      |
| C7012C1067                | None                      | 208/50,60                   | 1                                  | 8/96                        | 25 to 175          | Yes            | No        | Explosion-proof housing. International model.      |
| C7012C1075                | C7012C1075                | 100/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No        | JIS Explosion-proof approved. International model. |
|                           | _                         | _                           |                                    |                             |                    |                |           |  |
| C7012D1008                | None                      | C7012D1008                  | 8 had microa                       | ammeter m                   | ounted in bacl     | c of sensor    | case. Not | designed for use with relay or programmer.         |
| 0704054005                | 0704054404                | 400/50.00                   | T 0/4 T                            | 0.100                       | 001.405            | NI.            |           | T  |
| C7012E1005                | C7012E1104                | 120/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | _  |
| C7012E1013                | C7012E1104                | 120/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       |  |
| C7012E1021                | C7012E1187                | 220/50                      | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | International model.                               |
| C7012E1039                | C7012E1146                | 208/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | _  |
| C7012E1047                | C7012E1153                | 240/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | _  |
| C7012E1054                | C7012E1104                | 120/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | _  |
| C7012E1062                | C7012E1104 <sup>④</sup>   | 120/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | _  |
| C7012E1070                | C7012E1104 <sup>⑤</sup>   | 120/50,60                   | 3/4                                | 8/96                        | -20 to 125         | No             | Yes       | With collimating lens.                             |
| C7012E1088                | C7012E1112                | 120/50,60                   | 1                                  | 8/96                        | -20 to 125         | No             | Yes       | _  |
| C7012E1096                | C7012E1161                | 120/50,60                   | 1                                  | 6                           | -20 to 125         | No             | Yes       | _  |
| C7012E1104                | C7012E1104                | 120/50,60                   | 3/4                                | 8/96                        | -20 to 125         | Yes            | Yes       | _  |
| C7012E1112                | C7012E1112                | 120/50,60                   | 1                                  | 8/96                        | -20 to 125         | Yes            | Yes       | _  |
| C7012E1120                | C7012E1120                | 120/50,60                   | 1                                  | 8/96                        | -40 to 175         | Yes            | Yes       | _  |
| C7012E1138                | C7012E1187                | 220/50                      | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | International model.                               |
| C7012E1146                | C7012E1146                | 208/50,60                   | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | _  |
| C7012E1153                | C7012E1153                | 240/50,60                   | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | _  |
| C7012E1161                | C7012E1161                | 120/50,60                   | 1                                  | 6                           | -20 to 175         | Yes            | Yes       | _  |
| C7012E1179                | C7012E1161 <sup>①</sup>   | 120/50,60                   | 1                                  | 6                           | -20 to 175         | Yes            | Yes       | Fungus-proof                                       |
| C7012E1187                | C7012E1187                | 220/50                      | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | DIN approved. International model.                 |
| C7012E1195                | C7012E1195                | 110/50                      | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | MSI approved. International model.                 |
| C7012E1203                | C7012E1203                | 240/50,60                   | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | MSI approved. International model.                 |
| C7012E1211                | C7012E1211                | 100/50,60                   | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | With 113228J uv tube. Yamatake model               |
| C7012E1229 <sup>(1)</sup> | C7012E1229 <sup>(1)</sup> | 208/50,60                   | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | _  |
| C7012E1237                | Not Released              |                             |                                    |                             |                    |                |           | _  |
| C7012E1245                | C7012E1245                | 120/50,60                   | 3/4                                | 8/96                        | -20 to 175         | Yes            | Yes       | With 113228J uv tube. Yamatake model               |

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|                          |                         |                             | Specificat                         | ions of De                  | vice to be Re      |                |         |  |
|--------------------------|-------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------|----------------|---------|--|
| Device to be<br>Replaced | Current<br>Replacement  | Voltage/<br>Frequency<br>HZ | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter | Comments   |
| C7012E1252               | Not Released            |                             |                                    |                             |                    |                |         | _  |
| C7012E1260               | Not Released            |                             |                                    |                             |                    |                |         | _  |
| C7012E1278               | C7012E1278              | 120/50,60                   | 1                                  | None                        | -20 to 175         | Yes            | Yes     | With Brad Harrison type connector                  |
|                          |                         |                             |                                    |                             |                    |                |         |  |
| C7012F1003               | C7012F1052 <sup>4</sup> | 120/50,60                   | 1                                  | 8/96                        | -20 to 125         | No             | Yes     | Explosion-proof housing.                           |
| C7012F1011               | None                    | 120/50,60                   | 1                                  | 8/96                        | -20 to 125         | No             | Yes     | Explosion-proof housing. International model.      |
| C7012F1029               | None                    | 208/50,60                   | 1                                  | 8/96                        | -20 to 125         | No             | Yes     | Explosion-proof housing. International model.      |
| C7012F1037               | C7012F1052 <sup>4</sup> | 120/50,60                   | 1                                  | 8/96                        | -20 to 125         | No             | Yes     | Explosion-proof housing.                           |
| C7012F1045               | None <sup>①</sup>       | 120/50,60                   | 1                                  | 8/96                        | -20 to 125         | No             | Yes     | Explosion-proof housing. Fungus-proof.             |
| C7012F1052               | C7012F1052              | 120/50,60                   | 1                                  | 8/96                        | -20 to 175         | Yes            | Yes     | Explosion-proof housing.                           |
| C7012F1060               | C7012F1060              | 120/50,60                   | 1                                  | 8/96                        | -20 to 175         | Yes            | Yes     | JIS Explosion-proof approved. International model. |
| C7012F1078               | C7012F1078              | 208/50,60                   | 1                                  | 8/96                        | -20 to 175         | Yes            | Yes     | JIS Explosion-proof approved. International model. |
| C7012F1086               | Not produced            |                             |                                    |                             |                    |                |         | _  |
|                          |                         |                             |                                    |                             |                    |                |         |  |
| C7012G1001               | None                    | 220/50                      | 3/4                                | 8/96                        | -20 to 125         | No             | No      | International model.                               |
| C7012G1019               | C7012G1019              | 220/50                      | 3/4                                | 8/96                        | 8                  | Yes            | No      | DIN approved. International model.                 |
| C7012G1027               | None                    | 240/50,60                   | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | MSI approved. International model.                 |
| C7012G1035               | None                    | 110/50                      | 3/4                                | 8/96                        | 25 to 175          | Yes            | No      | MSI approved. International model.                 |
|                          |                         |                             |                                    |                             |                    |                |         |  |
| C7012X1001               | None                    | 220/50                      | 3/4                                | 8/96                        | 25 to 135          | No             | No      | International model.                               |
| C7012X1019               | None                    | 240/50,60                   | 3/4                                | 8/96                        | 8                  | No             | No      | Alco special                                       |
| C7012X1027               | C7012A1145              | 120/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | No      | Armstrong Special                                  |
| C7012X1035               | None                    | 220/50                      | 3/4                                | 8/96                        | 25 to 135          | No             | No      | International model.                               |
| C7012X1043               | C7012A1194 <sup>②</sup> | 240/50,60                   | 3/4                                | 8/96                        | 8                  | No             | No      | Alco special                                       |
| C7012X1050               | C7012A1194 <sup>②</sup> | 240/50,60                   | 3/4                                | 8/96                        | 8                  | No             | No      | Cast case and cover.                               |
| C7012X1068               | C7012A1145              | 120/50,60                   | 3/4                                | 8/96                        | 8                  | No             | No      | Cast case and cover.                               |
| C7012X1076               | C7012E1104              | 120/50,60                   | 3/4                                | 7                           | -20 to 125         | No             | Yes     | Self-check   |

|                          |                         |                             | Specificat                         | tions of De                 | vice to be Re      | eplaced        |         |                                  |
|--------------------------|-------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------|----------------|---------|----------------------------------|
| Device to be<br>Replaced | Current<br>Replacement  | Voltage/<br>Frequency<br>HZ | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter | Comments                         |
| C7012X1084               | None                    | 120/50,60                   | 3/4                                | 8/96                        | 8                  | No             | Yes     | Self-check                       |
| C7012X1092               | C7012E1203 <sup>①</sup> | 240/50,60                   | 3/4                                | 8/96                        | 25 to 135          | No             | Yes     | Fungus-proof                     |
| C7012X1100               | None                    | 120/50,60                   | 1                                  | 5/60                        | 8                  | No             | Yes     | Explosion-proof                  |
| C7012X1118               | None                    | 220/50                      | 3/4                                | 8/96                        | 8                  | No             | Yes     | Self-check. International Model. |

Tungus-proofing no longer is an option from Honeywell.

### Table 7. C7020 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                           |                                    |           | Specification                      | ons of Dev                  | rice to be Re      |                |         |   |
|---------------------------|------------------------------------|-----------|------------------------------------|-----------------------------|--------------------|----------------|---------|---|
| Device to be<br>Replaced  | Current Replacement <sup>⑤</sup> ⑥ | Frequency | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter | Comments  |
| C7020A1004 <sup>①②</sup>  | C7012A1160                         | 120/60    | 1                                  | 8/96                        | -20 to 200         | No             | No      |   |
| C7020A1012 <sup>①②③</sup> | None                               | 120/60    | 1                                  | 8/96                        | -20 to 200         | No             | No      | International model. BSP threads. 124803 Mounting Plate |
| C7020A1020 <sup>①②③</sup> | None                               | 120/60    | 1                                  | 8/96                        | -20 to 200         | No             | No      | International model. BSP threads. 124804 Mounting Plate |
| C7020A1038 <sup>①②</sup>  | C7012A1160 <sup>④</sup>            | 120/60    | 1                                  | 8/96                        | -20 to 200         | No             | No      | Fungus-proof. <sup>4</sup>                              |

<sup>©</sup> C7020A models used with R7255A Amplifier only. <sup>③</sup>

<sup>&</sup>lt;sup>2</sup> Replacement device has 1 inch NPT mounting.

<sup>&</sup>lt;sup>③</sup> Replacement device does not have 60 psi window

<sup>&</sup>lt;sup>(4)</sup> Replacement device has 8 foot leads only.

<sup>&</sup>lt;sup>⑤</sup> Replacement C7012E1104 does not have collimating lens; order collimating lens (part no. 124204) separately or use existing lens.

<sup>&</sup>lt;sup>(6)</sup> Special 10 foot, 5-wire cable with 5-pin male amphenol connector.

<sup>&</sup>lt;sup>(2)</sup> With special AN type connector; use existing connector and rewire to solid state C7012E1104.

<sup>&</sup>lt;sup>®</sup> Special high temperature model. For Intermittent use up to 250° F.

<sup>&</sup>lt;sup>9</sup> Replacement rated 25° F to 175° F.

<sup>&</sup>lt;sup>®</sup> Has 100V/50,60 shutter mechanism.

<sup>&</sup>lt;sup>②</sup> Used with R4126, R4127 Programmers. <sup>③</sup>

<sup>&</sup>lt;sup>③</sup> Device no longer available.

<sup>&</sup>lt;sup>(4)</sup> Fungus-proofing is no longer available

<sup>&</sup>lt;sup>⑤</sup> Update system. Select proper 7800 Series Device and R7847 amplifier

<sup>&</sup>lt;sup>®</sup> Replacement has ambient temperature range of -40° F to 175° F.

### Table 8. C7024 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                        |                  | Specificat                         | ions of De                  | vice to be Re      |                |         |                          |
|--------------------------|------------------------|------------------|------------------------------------|-----------------------------|--------------------|----------------|---------|--------------------------|
| Device to be<br>Replaced | Current<br>Replacement | Voltage<br>(Vdc) | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter | Comments                 |
| C7024E1001               | C7024E1001             | 24               | 3/4                                | 8/96                        | -40 to 175         | Yes            | Yes     |                          |
|                          |                        |                  |                                    |                             |                    |                |         |                          |
| C7024F1009               | C7024E1001             | 24               | 1                                  | 8/96                        | -20 to 175         | Yes            | Yes     | Explosion-proof housing. |

### Table 9. C7027 AND C7044 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                         | Specification                      | s of Device to              | be Replaced        |  |
|--------------------------|-------------------------|------------------------------------|-----------------------------|--------------------|--|
| Device to be<br>Replaced | Current<br>Replacement  | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Comments   |
| C7027A1007               | C7027A1080              | 1/2                                | 6/72                        | 0 to 215           |  |
| C7027A1015               | C7027A1031              | 1/2                                | 6/72                        | -40 to 215         |  |
| C7027A1023               | C7027A1023              | 1/2                                | 8/96                        | 0 to 215           |  |
| C7027A1031               | C7027A1031              | 1/2                                | 8/96                        | -40 to 215         |  |
| C7027A1049               | C7027A1049              | 1/2                                | 8/96                        | 0 to 215           | With 1/2 in. NPT connector.  |
| C7027A1056               | C7027A1056              | 1/2                                | 8/96                        | 0 to 215           | DIN approved. International model.   |
| C7027A1064               | C7027A1064              | 1/2                                | 24/288                      | -40 to 215         | With 1/2 in. NPT connector.  |
| C7027A1072               | C7027A1072              | 1/2                                | 8/96                        | -40 to 215         | With 1/2 in. NPT connector.  |
| C7027A1080               | C7027A1080              | 1/2                                | 8/96                        | 0 to 215           | C7027A1023 With heat block, part no. 136733 and 1/2 x 3/8 NPT bushing, part no. 390427B. |
| C7027A1098 <sup>①</sup>  | C7027A1098 <sup>①</sup> | 1/2                                | 8/96                        | 0 to 215           | Proprietary to Cleaver Brooks. ①   |
| C7027A1106               | C7027A1049              | 1/2                                | 8/96                        | 0 to 215           | With 1/2 in. NPT connector.  |
| C7027A1114               | C7027A1114              | 1/2                                | 4.6/44                      | 0 to 215           | With 22 in. Flexible Conduit installed   |
| C7044A1006               | C7044A1006              | Special<br>Mounting                | 6/72                        | 0 to 215           | Side Viewing. International model.   |

① Available from proprietary OEM only.

|           | 0=00= !!! <b>TD</b> 4\'/0! |                |                    | _  |
|-----------|----------------------------|----------------|--------------------|----|
| Table 10. | . C7035 ULTRAVIOL          | FIFIAME DETECT | OR CROSS REFERENCE | ┢. |

|                          |                                     | Specifica                        | tions of De                        | vice to be I                | Replaced           |   |
|--------------------------|-------------------------------------|----------------------------------|------------------------------------|-----------------------------|--------------------|---|
| Device to be<br>Replaced | Current<br>Replacement <sup>②</sup> | UV Tube<br>Included <sup>①</sup> | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Comments  |
| C7035A1007               | C7035A1023                          | 129464M                          | 1                                  | 6/72                        | 0 to 250           |   |
| C7035A1015               | C7035A1031                          | 129464N                          | 1                                  | 6/72                        | -40 to 250         |   |
| C7035A1023               | C7035A1023                          | 129464M                          | 1                                  | 6/72                        | 0 to 250           |   |
| C7035A1031               | C7035A1031                          | 129464N                          | 1                                  | 6/72                        | -40 to 250         |   |
| C7035A1049               | C7035A1049                          | 129464M                          | 1                                  | 6/72                        | 0 to 250           | International model. DIN approved.                            |
| C7035A1056               | C7035A1056                          | 129464N                          | 1                                  | 12/144                      | -40 to 250         |   |
| C7035A1064               | C7035A1064                          | 129464M                          | 1                                  | 6/72                        | -40 to 250         | International model. BSP PL thread. 4-pin base. DIN approved. |
| C7035A1072               | Not Released                        |                                  |                                    |                             |                    |   |
| C7035A1080               | C7035A1080                          | 129464M                          | 1                                  | 6/72                        | 0 to 250           | 600° F rated leads.   |

① Ultraviolet radiation sensor tube is field replaceable.

### Table 11. C7927 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                        | Specifica                          | tions of De<br>Replaced | vice to be |                            |  |  |  |
|--------------------------|------------------------|------------------------------------|-------------------------|------------|----------------------------|--|--|--|
| Device to be<br>Replaced | Current<br>Replacement | Mounting<br>Pipe Size<br>NPT (in.) | e Size Length Ambient   |            | Comments                   |  |  |  |
| C7927A1008               | None                   | 1/2                                | 77                      | -4 to 140  | Cable with connectors      |  |  |  |
| C7927A1016               | C7927A1016             | 1/2                                | 96                      | -40 to 200 | Used with Amplifier R7851B |  |  |  |

<sup>&</sup>lt;sup>②</sup> Replacement meets Underwriters Laboratories Inc. raintight requirements. NEMA 3 and 4 enclosures.

|                          |                        | Specifica                | ations of Do                       | evice to I | be Replaced        | k       |  |  |  |  |
|--------------------------|------------------------|--------------------------|------------------------------------|------------|--------------------|---------|--|--|--|--|
| Device to be<br>Replaced | Current<br>Replacement | Voltage/<br>Frequency Hz | Mounting<br>Pipe Size<br>NPT (in.) |            | Ambient<br>Temp °F | Shutter | Comments   |  |  |  |
| C7061A1004               | C7061A1004             | 120/50, 60               | 3/4                                | 8/96       | -40 to 175         | Yes     | _  |  |  |  |
| C7061A1012               | C7061A1012             | 120/50, 60               | 3/4                                | 8/96       | -40 to 175         | Yes     | _  |  |  |  |
| C7061A1020               | C7061A1020             | 120, 230/50, 60          | 3/4                                |            | -40 to 175         | Yes     | International Approved Model   |  |  |  |
| C7061A1038               | C7061A1038             | 120/50, 60               | 3/4                                |            | -40 to 175         | Yes     | Brad Harrison type connector   |  |  |  |
| C7061A1046               | C7061A1046             | 120/50, 60               | 1                                  |            | -40 to 175         | Yes     | Brad Harrison type connector   |  |  |  |
| C7061A1053               | C7061A1053             | 120/50, 60               | 1                                  | 8/96       | -40 to 175         | Yes     | _  |  |  |  |
| C7061A1079               | C7961A1079             | 120, 230/50, 60          | 3/4                                |            | -40 to 175         | Yes     | International Approved Model. With Collimating Lens part no.124204 installed |  |  |  |
| C7061F2001               | C7061F2001             | 120/50, 60               | 1                                  | 8/96       | -40 to 175         | Yes     | Explosion Proof  |  |  |  |

### Table 13. C7961 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                        | Specific                 | ations of De                       | evice to I | oe Replaced        | k       |  |
|--------------------------|------------------------|--------------------------|------------------------------------|------------|--------------------|---------|--|
| Device to be<br>Replaced | Current<br>Replacement | Voltage/<br>Frequency Hz | Mounting<br>Pipe Size<br>NPT (in.) |            | Ambient<br>Temp °F | Shutter | Comments   |
| C7961E1006               | C7961E1006             | 120/50, 60               | 3/4                                | 8/96       | -40 to 175         | Yes     | Use with amplifier R7851C.                               |
| C7961E1014               | C7961E1014             | 120/50, 60               | 1                                  | 8/96       | -40 to 175         | Yes     | Use with amplifier R7851C.                               |
| C7961E1022               | C7961E1022             | 120/50, 60               | 1                                  | None       | -40 to 175         | Yes     | Brad Harrison type connector. Use with amplifier R7851C. |
| C7961E1030               | C7961E1030             | 120/50, 60               | 3/4                                | None       | -40 to 175         | Yes     | Brad Harrison type connector. Use with amplifier R7851C. |
|                          |                        |                          |                                    |            |                    |         |  |
| C7961F1004               | C7961F1004             | 120/50, 60               | 1                                  | 8/96       | -40 to 175         | Yes     | Explosion Proof. Use with amplifier R7851C.              |

Table 14. C7076 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                        | Specifica                | ations of De                       | evice to b                  | oe Replaced        | d       |   |
|--------------------------|------------------------|--------------------------|------------------------------------|-----------------------------|--------------------|---------|---|
| Device to be<br>Replaced | Current<br>Replacement | Voltage/<br>Frequency Hz | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Shutter | Comments  |
| C7076A1007               | C7076A1007             | 120/60                   | 1                                  | None                        | -40 to 160         | Yes     | _   |
| C7076A1015               | C7076A1015             | 100/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | _   |
| C7076A1023               | C7076A1023             | 200/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | _   |
| C7076A1031               | C7076A1031             | 220, 240/50              | 1                                  | None                        | -40 to 160         | Yes     | _   |
| C7076A1049               | None                   | 117/50                   | 1                                  | None                        | -40 to 160         | Yes     | _   |
| C7076A1056               | None                   | 120/60                   | 1                                  | None                        | -40 to 160         | Yes     | Aspirator hinged on opposite side of housing                                  |
| C7076A1064               | None                   | 220/50                   | 1                                  | None                        | -40 to 160         | Yes     | Meets TUV Requirements. International Model                                   |
| C7076A1072               | None                   | 240/50                   | 1                                  | None                        | -40 to 160         | Yes     | Meets Euro Standards. International Model                                     |
|                          |                        |                          |                                    |                             |                    |         |   |
| C7076D1001               | None                   | 100/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | Explosion Proof. With JIS conduit box, Yamatake                               |
| C7076D1019               | None                   | 200/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | Explosion Proof. With JIS conduit box, Yamatake                               |
| C7076D1027               | C7076D1027             | 120/60                   | 1                                  | None                        | -40 to 160         | Yes     | Explosion-proof model.  |
| C7076D1035               | None                   | 120/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | Explosion Proof. With JIS conduit box, Yamatake                               |
| C7076D1043               | None                   | 220, 240/50              | 1                                  | None                        | -40 to 160         | Yes     | Explosion-proof model. No Approvals   |
| C7076D1050               | None                   | 220/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | Explosion Proof. CENELEC standard, Yamatake                                   |
| C7076D1068               | None                   | 220, 240/50, 60          | 1                                  | None                        | -40 to 160         | Yes     | Explosion Proof. With JIS conduit box, Yamatake                               |
| C7076 Europ              | ean Built              |                          |                                    |                             |                    | •       |   |
| C7076F1006               | C7076F1006             | 220, 240/50, 60          | 1                                  | None                        | -40 to 160         | Yes     | Explosion-proof model. International Model.                                   |
| C7076F1014               | C7076F1014             | 110/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | Explosion-proof model. International Model.                                   |
| C7076F1022               | C7076F1022             | 100/50, 60               | 1                                  | None                        | -40 to 160         | Yes     | Explosion-proof model. International Model for Japanese Market                |
| C7076F1030               | C7076F1030             | 220, 240/50, 60          | 1                                  | None                        | -40 to 160         | Yes     | Explosion-proof model. International Model Tropicalized and Sand Storm Proof. |

<sup>©</sup> C7076 is a UV detector with adjustable sensitivity and must be used with the R7476A1007 Plug-in Amplifier. Use R7886A1001 Amplifier with Honeywell 7800 Series Controls.

### Table 15. FIREYE<sup>™</sup> INFRARED FLAME DETECTOR CROSS REFERENCE

|                          |                            | Specif                             | ications                | of Devic | e to be Repla       | ced          |                                 |
|--------------------------|----------------------------|------------------------------------|-------------------------|----------|---------------------|--------------|---------------------------------|
| Device to be<br>Replaced | Current<br>Replacement ① ② | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(in.) | Orifice  | Collimating<br>Lens | With<br>Cell | Comments                        |
| FIREYE™                  |                            |                                    |                         |          |                     |              |                                 |
| 48PT11000                | C7915A1028                 | 1/2                                | 24                      | No       | No                  | Yes          | With heat block, straight body. |
| 48PT11003                | C7915A1028 <sup>3</sup>    | 1/2                                | 96                      | No       | No                  | Yes          | With heat block, straight body. |
| 48PT11007                | C7915A1028                 | 1/2                                | 48                      | No       | No                  | Yes          | With heat block, straight body. |
| 48PT19000                | C7915A1028 <sup>4</sup>    | 1/2                                | 24                      | No       | No                  | Yes          | With heat block, angle body.    |
| 48PT19003                | C7915A1028 <sup>34</sup>   | 1/2                                | 96                      | No       | No                  | Yes          | With heat block, angle body.    |
| 48PT19007                | C7915A1028 <sup>4</sup>    | 1/2                                | 48                      | No       | No                  | Yes          | With heat block, angle body.    |
|                          |                            |                                    |                         |          |                     |              |                                 |
| 48PT21000                | C7915A1028                 | 1/2                                | 24                      | No       | No                  | Yes          | With heat block, straight body. |
| 48PT21003                | C7915A1028 <sup>3</sup>    | 1/2                                | 96                      | No       | No                  | Yes          | With heat block, straight body. |
| 48PT21007                | C7915A1028                 | 1/2                                | 48                      | No       | No                  | Yes          | With heat block, straight body. |
| 48PT29000                | C7915A1028 <sup>4</sup>    | 1/2                                | 24                      | No       | No                  | Yes          | With heat block, angle body.    |
| 48PT29003                | C7915A1028 <sup>34</sup>   | 1/2                                | 96                      | No       | No                  | Yes          | With heat block, angle body.    |
| 48PT29007                | C7915A1028 <sup>4</sup>    | 1/2                                | 48                      | No       | No                  | Yes          | With heat block, angle body.    |

<sup>&</sup>lt;sup>①</sup> Perform pilot turndown test after replacing sensor and programmer.

Table 16. FIREYE<sup>™</sup> VISIBLE LIGHT FLAME DETECTOR CROSS REFERENCE.

| Device to be | Current                  | Specifications | of Device to | be Replaced |          |  |
|--------------|--------------------------|----------------|--------------|-------------|----------|--|
| Replaced     | Replacement <sup>①</sup> | With Housing   | With Lens    | With Filter | Comments |  |
| FIREYE™      |                          |                |              |             |          |  |
| 45AM11000    | ①                        | Yes            | No           | No          | _        |  |
| 45CM11000    | ①                        | Yes            | No           | Yes         | _        |  |
| 45CM11000Y   | ①                        | No             | No           | No          | _        |  |

① A possible solution would be to update to a 7800 Series replacement using the R7852B amplifier and the visible light detector C7962B.

<sup>&</sup>lt;sup>②</sup> Replace Fireye™ Combustion Control with appropriate Honeywell control. Refer to FIRING LINE Primary and Programmer Cross-References and Modernization section.

<sup>&</sup>lt;sup>③</sup> If 96-inch leadwires are required, order C7915A1036. Heat Block (part no. 105061), Gasket (part no. 114465), and Bushing Adapter (part no. 390427 for replacing Fireye™ Infrared Detectors) must be ordered separately, if needed.

<sup>&</sup>lt;sup>(4)</sup> Replacement suggestion is a straight body.

Table 17. FIREYE™ ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                                     | Specifications                     | of Device to                | be Replaced        |                |
|--------------------------|-------------------------------------|------------------------------------|-----------------------------|--------------------|----------------|
| Device to be<br>Replaced | Current<br>Replacement <sup>①</sup> | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Comments       |
| FIREYE™                  |                                     |                                    |                             |                    |                |
| UV-1                     | C7027A1080 <sup>② ④</sup>           | 1/2                                | 6/72                        | -40 to 212         | Angle body.    |
| UV-1A3                   | C7027A1080 <sup>②</sup>             | 1/2                                | 3/36                        | -40 to 212         | Straight body. |
| UV-1A6                   | C7027A1080 <sup>②</sup>             | 1/2                                | 6/72                        | -40 to 212         | Straight body. |
| UV-2                     | C7027A1080 <sup>②</sup>             | 3/8                                | 3/36                        | -40 to 212         | Straight body. |
| UV-6                     | C7027A1080 <sup>② ④</sup>           | 1/2                                | 6/72                        | -40 to 212         | Angle body.    |
| UV-7                     | C7027A1080 <sup>②</sup>             | 3/8                                | 6/72                        | -40 to 212         | Angle body.    |
| 45UV21010                | C7027A1080 234                      | 3/4                                | None                        | -40 to 200         | Angle body.    |
| 45UV21112                | C7027A1080 <sup>② ③ ④</sup>         | 3/4                                | None                        | -40 to 200         | Angle body.    |
| 45UV21113                | C7027A1080 <sup>② ③ ④</sup>         | 3/4                                | None                        | -40 to 200         | Angle body.    |
| 45UV31050                | C7027A1080 <sup>② ③ ④</sup>         | 3/4                                | None                        | 212 max.           | Angle body.    |

<sup>1</sup> The output of this sensor is not compatible with competitive amplifiers/primary relays. Programmer and amplifier or relay must also be replaced with appropriate Honeywell control. Refer to FIRING LINE Primary and Programmer Cross References and Modernization section.

<sup>&</sup>lt;sup>②</sup> Current replacement has ambient temperature rating of 0° to 215° F. If -40° F rating is required, order C7027A1031. Heat Block (part no. 136733) and 1/2 x 3/8 Bushing (part no. 390427B) must be ordered separately, if needed.

<sup>&</sup>lt;sup>3</sup> Current replacement has 1/2 NPT mounting. Use standard 3/4 x 1/2 reducer coupling.

<sup>&</sup>lt;sup>(4)</sup> Replacement suggestion is a straight body.

### Table 18, C7012 ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                           |                             | Specificat                         | ions of De                  | vice to be Re      | eplaced        |         |                        |
|--------------------------|---------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------|----------------|---------|------------------------|
| Device to be<br>Replaced | Current<br>Replacement    | Voltage/<br>Frequency<br>HZ | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F | Solid<br>State | Shutter | Comments               |
| FIREYE™                  |                           | •                           |                                    |                             |                    |                | •       |                        |
| 45UV11020                | C7012A1152 <sup>② ⑤</sup> | 120/50,60                   | 1                                  | None                        | 200 max.           | N/A            |         |                        |
| 45UV11021                | C7012A1152 <sup>② ⑤</sup> | 120/50,60                   | 1                                  | None                        | 220 max.           | N/A            |         |                        |
| 45UV51000                | C7012E1112 <sup>② ⑤</sup> | 120/50,60                   | 1                                  | None                        | 200 max.           | Yes            |         |                        |
| 45UV51005                | C7012E1112 <sup>②</sup>   | 120/50,60                   | 1                                  | 8/96                        | 200 max.           | Yes            |         |                        |
| 45RM11000                | C7076A1007 <sup>3 5</sup> | 120/50,60                   | 1                                  | None                        | 32 to 131          | Yes            | Yes     | Adjustable sensitivity |
| Vigitron                 |                           |                             |                                    |                             |                    |                |         |                        |
| 9501                     | C7012E1112 <sup>④</sup>   | 120/50,60                   | 1                                  | 8/96                        | -4 to 194          | Yes            | Yes     |                        |
| Barber Colema            | n                         |                             |                                    |                             |                    |                |         |                        |
| 1291                     | C7012A1145                | 120/60                      | 3/4                                | 8/96                        | Unknown            | No             | No      |                        |

<sup>&</sup>lt;sup>①</sup> The output of these sensors is not compatible with competitive amplifiers/primary relays. Programmer or Primary and amplifier must also be replaced with appropriate Honeywell control. Refer to FIRING LINE Primary and Programmer Cross References and Modernization section.

<sup>&</sup>lt;sup>2</sup> Replacement has 175° F maximum temperature rating.

 $<sup>^{\</sup>textcircled{3}}$  Replacement has -40° F to 160° F [-40 to 71° C] temperature rating.

<sup>&</sup>lt;sup>(4)</sup> Replacement has -20° to 175° F temperature rating.

<sup>&</sup>lt;sup>⑤</sup> Replacement has 8'/96" leadwires.

# THE FIRING LINE HONEYWELL FLAME SENSORS (SCANNERS) CROSS REFERENCE

### Table 19. FIREYE ULTRAVIOLET FLAME DETECTOR CROSS REFERENCE.

|                          |                                     | Specificati                        | ons of Dev<br>Replaced      | vice to be         |                |          |  |
|--------------------------|-------------------------------------|------------------------------------|-----------------------------|--------------------|----------------|----------|--|
| Device to be<br>Replaced | Current<br>Replacement <sup>①</sup> | Mounting<br>Pipe Size<br>NPT (in.) | Lead<br>Length<br>(ft./in.) | Ambient<br>Temp °F |                | Comments |  |
| Barber Colema            | n                                   |                                    |                             |                    |                |          |  |
| 1292                     | C7027A1080 <sup>②3</sup>            | 3/4                                | 7                           | 212 max.           | Straight body. |          |  |
|                          | 1                                   | •                                  |                             | •                  |                |          |  |
| Pyronics                 |                                     |                                    |                             |                    |                |          |  |
| 4350                     | C7027A1031 <sup>② ③</sup>           | 1 (NPS<br>union)                   | 1 1/2                       | -40 to 212         | Angle body.    |          |  |
|                          |                                     |                                    |                             |                    |                |          |  |
| Protection Con           | trol                                |                                    | •                           |                    | _              | _        |  |
| P-CI                     | C7027A1080 <sup>② ③</sup>           | Unknown                            | 6                           | 212                | Angle body.    |          |  |
| P-CII                    | C7027A1080 <sup>② ③</sup>           | 3/4 NPS                            | 6                           | 212                | Straight body. |          |  |

<sup>&</sup>lt;sup>①</sup> The output of these sensors is not compatible with competitive amplifiers/primary relays. Programmer or Primary and amplifier must also be replaced with appropriate Honeywell control. Refer to FIRING LINE Primary and Programmer Cross References and Modernization section.

<sup>&</sup>lt;sup>②</sup> Current replacement has 1/2 NPT mounting. Use standard reducer coupling.

<sup>&</sup>lt;sup>③</sup> Replacement has 8'/96" leadwires.

THE FIRING LINE HONEYWELL FLAME SENSORS (SCANNERS) CROSS REFERENCE

70-8317—01

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