



# FLAME DETECTOR SELECTION GUIDE

Forney's flame detectors are used world-wide to prove the presence and absence of flames in utility or industrial boilers firing solid, liquid or gaseous fuels. Use this table as a general rule for the selection of your flame detector.

|   |   | Natural Gas | Oil | Coal | Lignite | Coal & Gas | Coal & Oil | Lignite & Gas |
|---|---|-------------|-----|------|---------|------------|------------|---------------|
| <b>Unitized Detectors (amplifier included)</b>                                      |   |             |     |      |         |            |            |               |
|    | <b>HD Flame Detector</b><br>IR sensor 900 - 1700 nm<br>UV sensor 210 - 390 nm | P           | P   | P    | P       | P          | P          | P             |
|    | <b>UniFlame® I</b><br>IR sensor 700 - 1700 nm<br>UV sensor 295 - 320 nm       | A           | A   | A    | A       | A          | A          | A             |
|   | <b>UniFlame® II</b><br>IR sensor 700 - 1700 nm<br>UV sensor 295 - 320 nm      | A           | A   | A    | A       | A          | A          | A             |
|  | <b>D85 Series</b><br>IR sensor 830 - 1100 nm<br>UV sensor 295 - 340 nm        | A           | A   | A    | A       | A          | A          | A             |
| <b>Discrete Detectors (separate amplifier required)</b>                             |   |             |     |      |         |            |            |               |
|  | <b>IDD-IIU</b><br>400 - 3300 nm   | A           | P   | P    | A       | N          | P          | N             |
|   | <b>IDD - IIL</b><br>700 - 3300 nm   | N           | N   | N    | P       | N          | N          | N             |
|   | <b>IDD - II</b><br>700 - 3300 nm  | N           | P   | P    | A       | N          | A          | N             |
|  | <b>IDD-Ultra</b><br>210-390 nm  | P           | A   | N    | N       | N          | N          | N             |

P = Preferred

A = Acceptable

N = Not recommended / will not detect

Fiber Optics are available for tangential and opposed fired units.

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More information on each product can be found in Forney's product specific manuals or spec sheets.

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