4070 High Energy Igniters

Powerful Spark Ignition for New or Existing Burner Applications

Advanced Technology

The 4070 series igniter combines high energy and continuous durability through an innovative electronic transformer. Installing the 4070 igniter is made easy with its compact, lightweight electronic design and versatile surface or pole mount design. With its smaller size and advanced technology, the 4070 outperforms larger competitive units.

Flexible

The 4070 series of ignition transformers provide a strong electric spark ensuring light-off of your Fives North American burners. Consult Fives North American for air-assisted igniters and high excess air burner applications. As an added benefit, the 4070's output is half-wave rectified permitting some flame relays to ignore UV from the spark—a UV blind feature.

Models

4070-NB
Standard 4070 igniter supplied with NEMA 4 enclosure and U-bolts for pole mounting.

4070-NBM
Same as 4070-NB except for the male connector. The male connector is used when a longer run is needed and a 4085 extension cable is used to lengthen the run.
**SPECIFICATIONS**

**Input:** 120 V ac, 60 Hz, 40 VA  
**Igniter:** Output: 9 kV, 45 mA RMS  
**Operating Temperature:** 32 F to 140 F  
**Storage Temperature:** −40 F to 185 F  
**Output Cable:** 15 inches of #16 AWG  
**Secondary Grounding:** Single-point endpoint grounding  
**Agencies:** UL Recognized, CSA Certified

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>(102)</td>
</tr>
<tr>
<td>8 1/2</td>
<td>(222)</td>
</tr>
<tr>
<td>5</td>
<td>(152)</td>
</tr>
<tr>
<td>8 3/4</td>
<td>(203)</td>
</tr>
<tr>
<td>5/16 (7.94) dia.</td>
<td>4 holes</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**

Standard comes with female spark connector. Male connector must be used if 4085 extension wire is required.

4070-  
**NB** = NEMA 4 enclosure  
**NBM** = NEMA 4 enclosure and male connector

**WARNING**  
Fives North American igniters must be installed and serviced only by a qualified burner service technician. Always disconnect power source before wiring to avoid electrical shock or damage to electrical components.

**NOTICE**  
Grounding – The ignition circuit requires a reliable ground path back to the 4070 panel.

**WARNING:** Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters recommendations, and care in operation.

Fives North American Combustion, Inc. - 4455 East 71st Street - Cleveland, OH 44105 USA - Phone 216.271.6000  
Fax 216.641.7852 - email: fna.sales@fivesgroup.com - www.fivesgroup.com/fivesna

8-04-B4070