



Series Y75 Sensing Probes for Electronic Ignition Systems

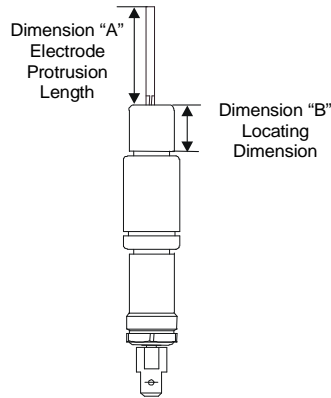


Figure 1: Y75 Sensing Probe

Application

The Y75 sensing probe may be used to replace broken or damaged sensing probes in electronic ignition control systems.

Table 1: Specifications

| | | |
|--------------------------------|-------------------------------------|-------------------------|
| Product | Y75 Replacement Sensing Probes | |
| Material | Rod: | Kanthal D or Hoskin 815 |
| | Ceramic: | Steatite |
| Maximum Temperature | Rod: | 1,800°F (982°C) |
| | Ceramic: | 1,000°F (538°C) |
| Agency Listings | CSA Certificate Number 22951-165071 | |
| Specification Standards | ANSI Z21.20, CAN1-6.4 | |

Performance specifications are nominal and conform to acceptable industry standards. All agency certification of BASO products is performed under dry and controlled indoor environmental conditions. Use of BASO products beyond these conditions is not recommended and may void the warranty. Product must be protected if exposed to water (dripping, spraying, rain, etc.) or other harsh environments. The original equipment manufacturer or end user is responsible for the correct application of BASO products. Consult BASO Gas Products LLC for questionable applications. BASO Gas Products LLC shall not be liable for damages or product malfunctions resulting from misapplication or misuse of its products. Refer to the Y75 Series Sensing Probes Product Bulletin (BASO-PB-Y75) for necessary information on operating and performance specifications of this product.

Installation

CAUTION: Turn off the gas to the appliance at the upstream manual shutoff valve before installing the Y75 sensing probe.

WARNING: Shock Hazard. To prevent electrical shock or possible damage to the equipment, disconnect the power supply.

Perform the following procedure to install the Y75 sensing probe:

1. Turn off the gas at the upstream manual shutoff and disconnect power to the appliance.
2. Disconnect the sensing probe cable from the old sensing probe.
3. Remove the old sensing probe from the pilot burner.
4. Check the length of Dimension B (see Figure 1) to ensure the correct replacement probe is being used.
5. Compare the sensing probe rod protrusion length (Dimension A, see Figure 1). If required, trim the length of the Y75 rod being installed to the same length as the sensing rod being replaced.
6. **Install the Y75 sensing probe into the pilot burner by applying 2-6 inch-lbs of torque.**
7. Restore the power and the gas supply to the appliance.
8. Using a microammeter, check the signal passing through the sensing probe. Refer to Table 2 for minimum flame sensing currents for various ignition controls.
9. If the microampere signal is marginal (minimum + 0.1 microamperes), trim the Y75 sensing probe in increments of 0.125 in. (3.17 mm), taking care that there is still proper flame impingement on the sensing probe.
10. Reconnect the sensing probe cable to the new sensing probe. Before leaving the installation, observe at least three complete operating cycles to see that all components are functioning correctly.

Table 2: Minimum Current Requirements

| Product Number | Minimum Required Flame Sensing Current in Microamperes |
|--|--|
| G60 all models, CSAs (all models except CSA45A-601R and CSA51A-601R) | 0.7 microamperes DC |
| G65 all models, G66 all models, CSA45A-601R, CSA51A-601R, G600AX, G600AY, and G670AW | 0.2 microamperes DC |
| G770 all models, G600KX, LX, LY, MX, NX, and RX | 0.15 microamperes DC |

Table 3: Replacement Guide

| Sensing Probe | Description | Dimensions | |
|---------------|---|---------------------|---------------------|
| | | A | B |
| Y75AS-1 | 90° Terminal Connector Replaces Y75AA | (1.40 in.) 35.56 mm | (0.34 in.) 8.63 mm |
| Y75AS-2 | Straight Terminal Connector Replaces Y75AA | (1.40 in.) 35.56 mm | (0.34 in.) 8.63 mm |
| Y75BS-1 | Straight Terminal Connector Replaces Y75BA | (1.40 in.) 35.56 mm | (0.57 in.) 14.47 mm |



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Printed in U.S.A.