R.K. Instruments & Controls

TECHNICAL DATASHEET

FLOW & FLAME CONTROL | Office No. 12, 1st Floor, Dhamanwala Service Complex, G.I.D.C., Pandesara, Surat - 394221, Gujarat, India
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Ignition & Flame Sensor Electrode — Collar & Threaded Hex Type

Brand: R.K. Instruments & Controls | Code/Part No.: Custom / Made to Order | Category: IGNITION ELECTRODES

Specifications

Product Type	**Ignition Electrode / Ionisation Flame Sensor Rod**
Mounting Type	**Collar / plain ceramic sleeve type; Threaded hex metal body type**
Thread Size	**M10, M12, M14, M18, 1/2" BSP (hex body type)**
Ceramic Insulation Material	**High-purity Alumina (Al2O3), 95% – 99%, glazed**
Electrode Rod Material	**Kanthal A1 / Inconel 601 / AISI 310 Stainless Steel**
Max Operating Temperature	**Up to 1350°C – 1400°C**
Dielectric Strength	**> 15 kV/mm (suitable for 5 kV to 15 kV ignition transformers)**
Terminal Connection	**Standard M4 threaded stud / 4 mm & 6.35 mm nipple terminal**
Rod Diameter	**2.5 mm, 3.0 mm, 3.2 mm, 4.0 mm (customisable)**
Ceramic Diameter	**8 mm, 10 mm, 12 mm, 14 mm (customisable)**
Tip Profile	**Straight / custom bent (as per sample or burner drawing)**
Manufacturer	**R.K. Instruments & Controls**



Description

R.K. Instruments & Controls manufactures high-temperature ceramic spark ignition electrodes and ionisation flame rectification (flame sensor) electrodes for gas, oil and dual-fuel industrial burners. Built with high-purity Alumina (Al2O3) insulation and heat-resistant alloy rods (Kanthal A1, Inconel 601 or AISI 310 stainless steel), they are available in collar / plain ceramic sleeve type and threaded hex metal body type (M10, M12, M14, M18, 1/2" BSP), with M4 threaded stud or 4 mm / 6.35 mm nipple terminals for standard silicone ignition boots. Rod length, rod and ceramic diameter and tip bend (straight, L-bend, J-bend) are made to order as per sample or burner drawing.

Typical media compatibility: CNG, PNG, LPG, Air, Nitrogen — confirm against application before installation.