



# ZEECO UNISPARK™

## The Universal Ignition System

One explosion-proof ignition and flame monitoring system designed to meet multiple standards worldwide. The ZEECO® UNISPARK™ works to monitor and control process burner, thermal oxidizer or incinerator, and duct burner ignition systems. In addition, the UNISPARK system features a wide operating temperature range, allowing it to operate even in extreme environments. This, plus a wide range of certifications makes the UNISPARK the universal choice for any application.

The UNISPARK system houses both the spark generator and the flame amplifier in a single convenient housing made of corrosion-resistant cast aluminum. The spark generator is available in High Energy 2 Joule, High Energy 7 Joule, and High Tension 8 kV configurations. UNISPARK works with all Zeeco ignitors, and with those of other manufacturers as well. Please contact Zeeco for specific compliance with your application.

The UNISPARK system can include an optional flame rod amplifier that works with all flame rod sensing systems, and is SIL 2 capable for flame verification in Burner Management Systems. UNISPARK provides many system control options. Push buttons and lights can be provided for a manual system, or a relay can be selected for remote operation by the BMS system. When the flame relay option is selected, a flame on dry contact is always provided for connection to a BMS system.

The Zeeco UNISPARK comes standard with the following hazardous area approvals. If you do not see the approval your application requires, call Zeeco. Additional country-specific approvals are available and units can be customized to your requirements.

- **NEC**  
Class 1, Div. 1, Groups A, B, C & D Class 1, Zone 1, Group IIC  
Class II, Div. 1, Groups E, F & G Class III  
Ambient Temperature -20°C to +40°C  
Enclosure Type 3, 4, 4X, 7, & 9
- **ATEX**  
Exd IIC T4 Gb  
Ambient Temperature -20°C to +55°C IP66
- **IECEX**  
Exd IIC T4 Gb  
Ambient Temperature -20°C to +55°C IP66

The UNISPARK ignition system is certified for use virtually anywhere in the world. It holds hazardous area certifications from the following organizations:

- IECEx
- ATEX
- UL
- EAC
- PESO
- INMETRO
- Too many others to list



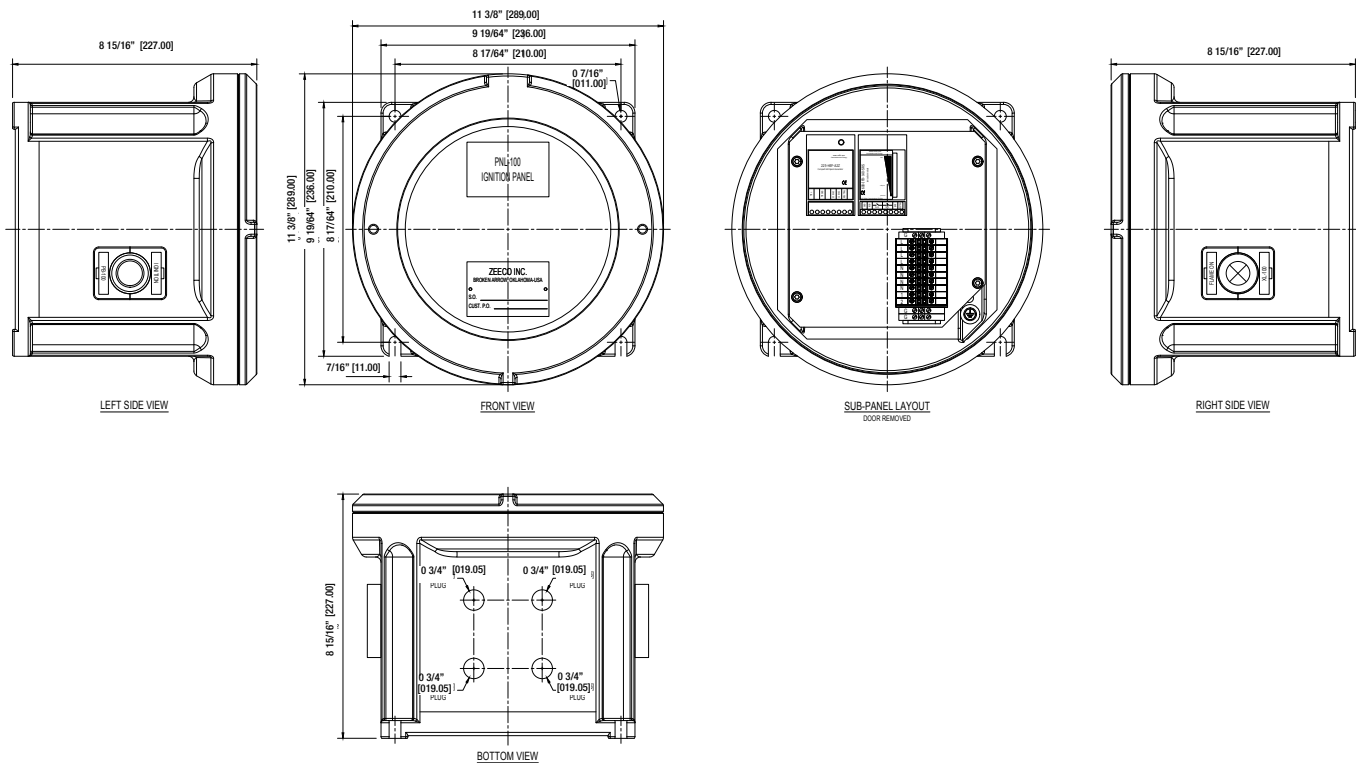
048-371-1112 model shown



048-371-1112 model shown



048-371-1112 model shown



## Building Your UNISPARK Part Number 048-371-1XYZ

X	
DIGIT	DESCRIPTION
0	2 JOULE HEI ONLY
1	2 JOULE HEI & FLAME RELAY
2	RESERVED
3	HIGH TENSION & FLAME RELAY
4	7 JOULE HEI ONLY

Y	
DIGIT	DESCRIPTION
0	24 VDC IGNITION SIGNAL FROM BMS SYSTEM
1	PUSH BUTTON IGNITION & FLAME ON LIGHT

Z	
DIGIT	DESCRIPTION
1	120 VAC INPUT POWER
2	240 VAC INPUT POWER
3	120/240 VAC DUAL VOLTAGE (ONLY AVAILABLE WITH 4 IN X DIGIT)

Available ready-to-ship in a variety of configurations with available expedited delivery, the UNISPARK system is your single-point retrofit or upgrade solution. Don't see a UNISPARK to suit your application? Give Zeeco a call as custom models are available for any application.

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