**SignalFire Sentinel Digital Input Interface**

**Model: SENTINEL-DI-XXXX**

**External Power Source**
- $V_{\text{max}}$: 5.9 VDC
- $I_i$: 3.1 A
- $P_i$: 0.8 W
- $C_i$: 23.3 μF
- $L_i$: 4.08 μH

**WARNING:** Connect only the internal battery pack OR the external solar system/external power source

**Digital Inputs**
- $V_{\text{max}}$: 30 VDC
- $I_{\text{max}}$: 100mA
- $C_i$: 0.01 μF
- $L_1$: 1.0 nH

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**SignalFire Telemetry**

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Control Drawing, Sentinel Digital Input Interface</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>960-0028-01</td>
<td>840-0094-0x</td>
<td>6/24/15</td>
<td>2.3</td>
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**Class I, Division 1, Groups C and D**

- **Ambient Temperature Limit:** -40°C to +60°C
- **Temperature Code:** T3

**WARNING:**
- Substitution of components may impair intrinsic safety.
- Choose peripheral devices and associated apparatuses such that the following conditions are met:
  - $U_i/V_{\text{max}} \geq U_o/V_{\text{oC}}$
  - $I_i/I_{\text{max}} \geq I_o/I_{\text{sc}}$
  - $P_i \geq P_o$
  - $C_o/C_a \geq C_i + C_{\text{cable}}$
  - $L_o/L_a \geq L_i + L_{\text{cable}}$

- When replacing the internal battery, only use SignalFire lithium battery model number 810-0008-02
- See SignalFire Instruction manual number 960-0034-01 for installation requirements
- Install the internal battery pack only when external power is not used
**SignalFire Sentinel Digital with Turbine Interface**

Model: SENTINEL-TURBINE-XXXX

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**Class I, Division 1, Groups C and D**

- **Ambient Temperature Limit:** -40°C to +60°C
- **Temperature Code:** T3

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**WARNING:** Substitution of components may impair intrinsic safety.

- Choose peripheral devices and associated apparatuses such that the following conditions are met:
  - \( \frac{U_i}{V_{max}} \geq \frac{U_o}{V_{oc}} \)
  - \( \frac{I_i}{I_{max}} \geq \frac{I_o}{I_{sc}} \)
  - \( P_i \geq P_o \)
  - \( C_i \geq C_o + C_{cable} \)
  - \( L_o/L_a \geq L_i + L_{cable} \)

- When replacing the internal battery, only use SignalFire lithium battery model number 810-0008-02
- See SignalFire Instruction manual number 960-0060-01 for installation requirements
- Install the internal battery pack only when external power is not used

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**SignalFire Telemetry**

- **Part Name:** Control Drawing, Sentinel Digital with turbine Interface
- **Part Number:** 960-0028-01
- **Date:** 6/24/15
- **Rev:** 2.3
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