



SignalFire C1D1 HART Analog System
Model: MC1D1-3BIS-1-M-N

Analog Sensor Output A

Uo/Voc: 21 VDC
 Io/Isc: 88.43mA
 Po: 612mW
 Co/Ca: 0.2 uF
 Lo/La: 250uH

Values are total allowed at connector

Analog Sensor Output B

Uo/Voc: 21 VDC
 Io/Isc: 88.43mA
 Po: 612mW
 Co/Ca: 0.2 uF
 Lo/La: 250uH

Values are total allowed at connector

Digital Input A

Vmax: 30 VDC
 Ii: 100mA
 Pi: 3.0W
 Ci: <0.01 uF
 L1: <1.0 nH

Digital Input B

Vmax: 30 VDC
 Ii: 100mA
 Pi: 3.0W
 Ci: <0.01 uF
 L1: <1.0 nH

Digital Output

Uo/Voc: 6.7 VDC
 Io/Isc: 2.0mA
 Po: 0.0134W
 Co/Ca: 1.0 uF
 Lo/La: 100uH

Class I, Division 1, Groups C and D

Ambient Temperature Limit: -40C to +60C
Temperature Code: T4

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

- When replacing the battery, only use SignalFire lithium battery model number 810-0008-02
- See SignalFire Instruction manual number 960-0017-01 for installation requirements

SignalFire Telemetry

Part Name	Control Drawing, SFT C1D1 HART Analog System	Date	10/5/11
Part Number	960-0017-01	Rev	C
Material			