

CONTROL DRAWING

HAZARDOUS (CLASSIFIED) LOCATION

Ex ia IIA T4 Ga
 CLASS I, DIVISION 1, GROUP D
 T4, Ta = 0°C TO +40°C

APPARATUS (FIELD DEVICE)

SENSOR ASSEMBLY
 (UL913 INTRINSICALLY SAFE APPARATUS)
 IQ POWER HL SENSOR
 SIMCO-ION P.N. 4016501

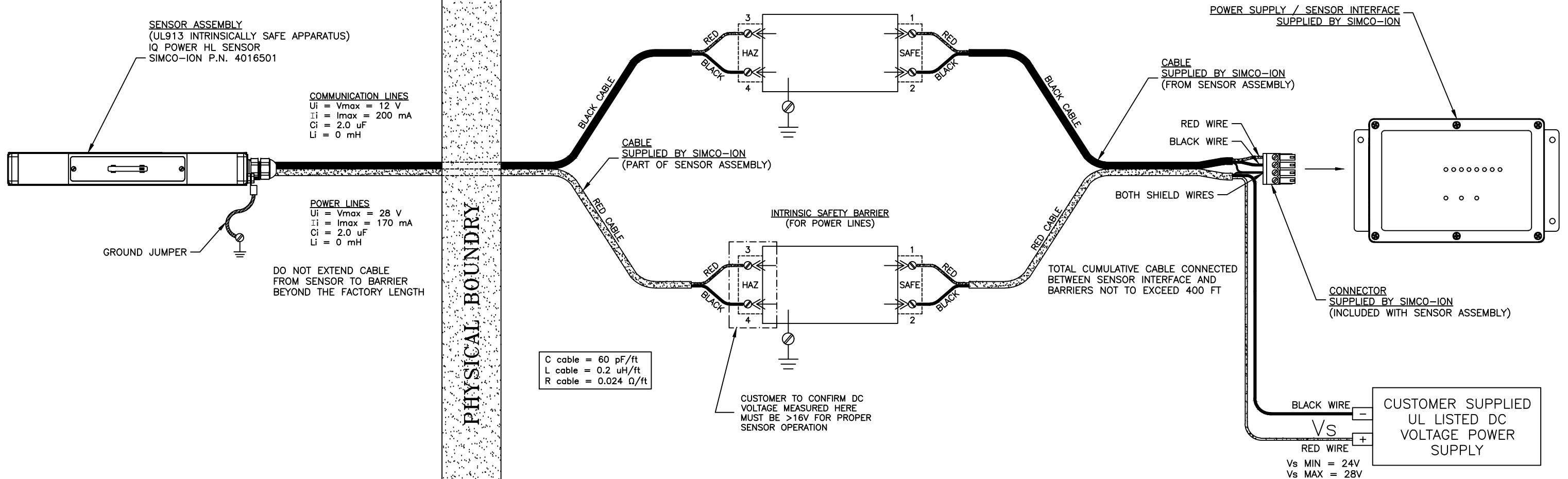
COMMUNICATION LINES
 $U_i = V_{max} = 12\text{ V}$
 $I_i = I_{max} = 200\text{ mA}$
 $C_i = 2.0\text{ }\mu\text{F}$
 $L_i = 0\text{ mH}$

POWER LINES
 $U_i = V_{max} = 28\text{ V}$
 $I_i = I_{max} = 170\text{ mA}$
 $C_i = 2.0\text{ }\mu\text{F}$
 $L_i = 0\text{ mH}$

DO NOT EXTEND CABLE
 FROM SENSOR TO BARRIER
 BEYOND THE FACTORY LENGTH

NON-HAZARDOUS (UNCLASSIFIED) LOCATION

ASSOCIATED APPARATUS (BARRIER)



C cable = 60 pF/ft
 L cable = 0.2 uH/ft
 R cable = 0.024 Ω/ft

CUSTOMER TO CONFIRM DC
 VOLTAGE MEASURED HERE
 MUST BE >16V FOR PROPER
 SENSOR OPERATION

PHYSICAL BOUNDARY

- NOTES:
- 1) INSTALLATION MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) OR APPLICABLE GOVERNMENT, STATE, PROVIDENCE OR LOCAL REGULATIONS.
 - 2) -
 - 3) WARNING: SENSOR IS NOT GALVANICALLY ISOLATED, INSTALL ACCORDING TO NEC OR CEC AS REQUIRED BY YOUR LOCAL REGULATIONS.
 - 4) REFER TO SIMCO-ION INSTRUCTION MANUALS 5201252, 5201253, AND 5201250 FOR ADDITIONAL INFORMATION.

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C.A.D. GENERATED
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DIMENSIONS IN INCHES: DO NOT SCALE DRAWING TOLERANCES UNLESS SPECIFIED XXX=±0.005 .XX=±0.01 FRACTIONS=±1/64 ANGLE=±1/2°		THIRD ANGLE PROJECTION		TITLE IQ POWER HL SENSOR (GND ISO.)	
MATERIAL -		FINISH -		DRAFTSMAN M. UZDZIENSKI	DATE 6/14/2023
REV		DESCRIPTION	ECN DATE	REV	DESCRIPTION
A		PRODUCTION RELEASE	MU TBD		
1		PRELIMINARY	6/14/23		
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