

S5000 -

MATERIAL	
2 = STAINLESS STEEL IIB+H2 / B, C, D	
3 = STAINLESS STEEL IIC / A	

RELAY STATE	
0	= No Relays
1	= Latch Alarm / Non-Latch Warn De-Energized
2	= Latch Alarm / Non-Latch Warn Energized
3	= Latch Alarm / Latch Warn De-Energized
4	= Latch Alarm / Latch Warn Energized
5	= Non-Latch Alarm / Non-Latch Warn De-Energized
6	= Non-Latch Alarm / Non-Latch Warn Energized
7	= Non-Latch Alarm / Latch Warn De-Energized
8	= Non-Latch Alarm / Latch Warn Energized

CUSTOM FEATURES

- 00 = None (std)
- 01 = SS Tag
- 02 = HART Off (Factory Setting, customer can enable later)
- 03 = SS Tag/Hart Off (Factory Setting, customer can enable later)
- 04 = UI Assy - 1 with Bluetooth Disabled
- 05 = SS Tag/UI Assy - 1 with Bluetooth Disabled

SENSOR #2 (See User Manual for Gas Sensor/Code List)
 000 = Default (if sensor #1 is Cxx or Mxx)
 Dxx = Digital Sensor (only if sensor #1 = Rxx or Dxx)

PAINT OPTIONS
0 = None
1 = Gray
2 = Blue
3 = Yellow
4 = White

OUTPUTS

- 0 = Bluetooth / Modbus / HART 1.25 mA
- 1 = Bluetooth / Modbus / HART 3.5 mA
- 2 = Bluetooth / Modbus / HART 1.25 mA / RELAYS
- 3 = Bluetooth / Modbus / HART 3.5 mA / RELAYS
- 4 = No Bluetooth / Modbus / HART 1.25 mA
- 5 = No Bluetooth / Modbus / HART 3.5 mA
- 6 = No Bluetooth / Modbus / HART 1.25 mA / RELAYS
- 7 = No Bluetooth / Modbus / HART 3.5 mA / RELAYS

AGENCY APPROVAL
0 = CSA
1 = ATEX / IECEx
2 = FM
4 = INMETRO
5 = Marine (MED)
6 = Marine (TA)

**SENSOR #1(See User Manual for
Gas Sensor/Code List**

Dxx = Digital Sensor
Mxx = Passive MOS
Rxx = IR400/IR700
Cxx = Passive Cat Bead

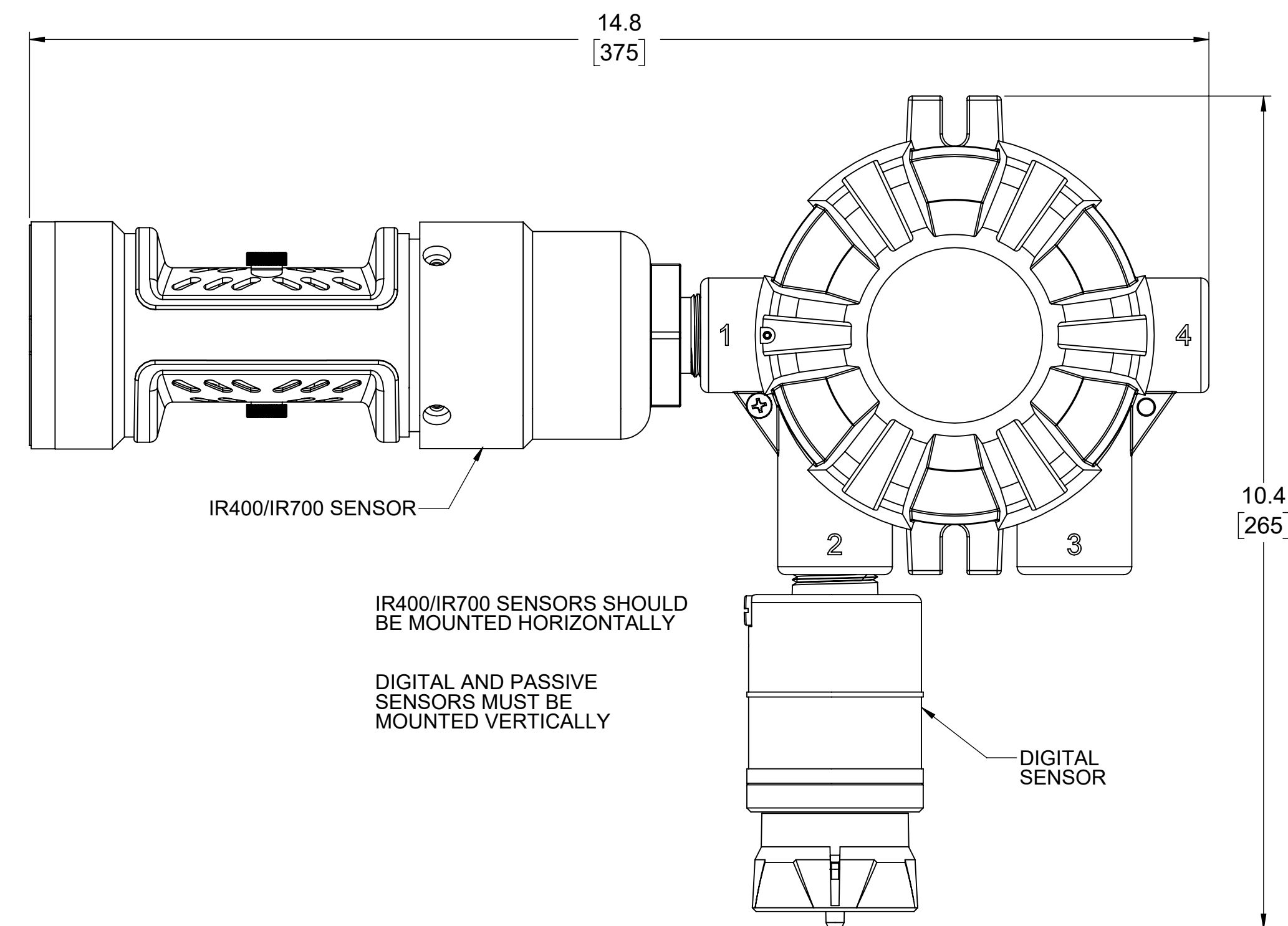
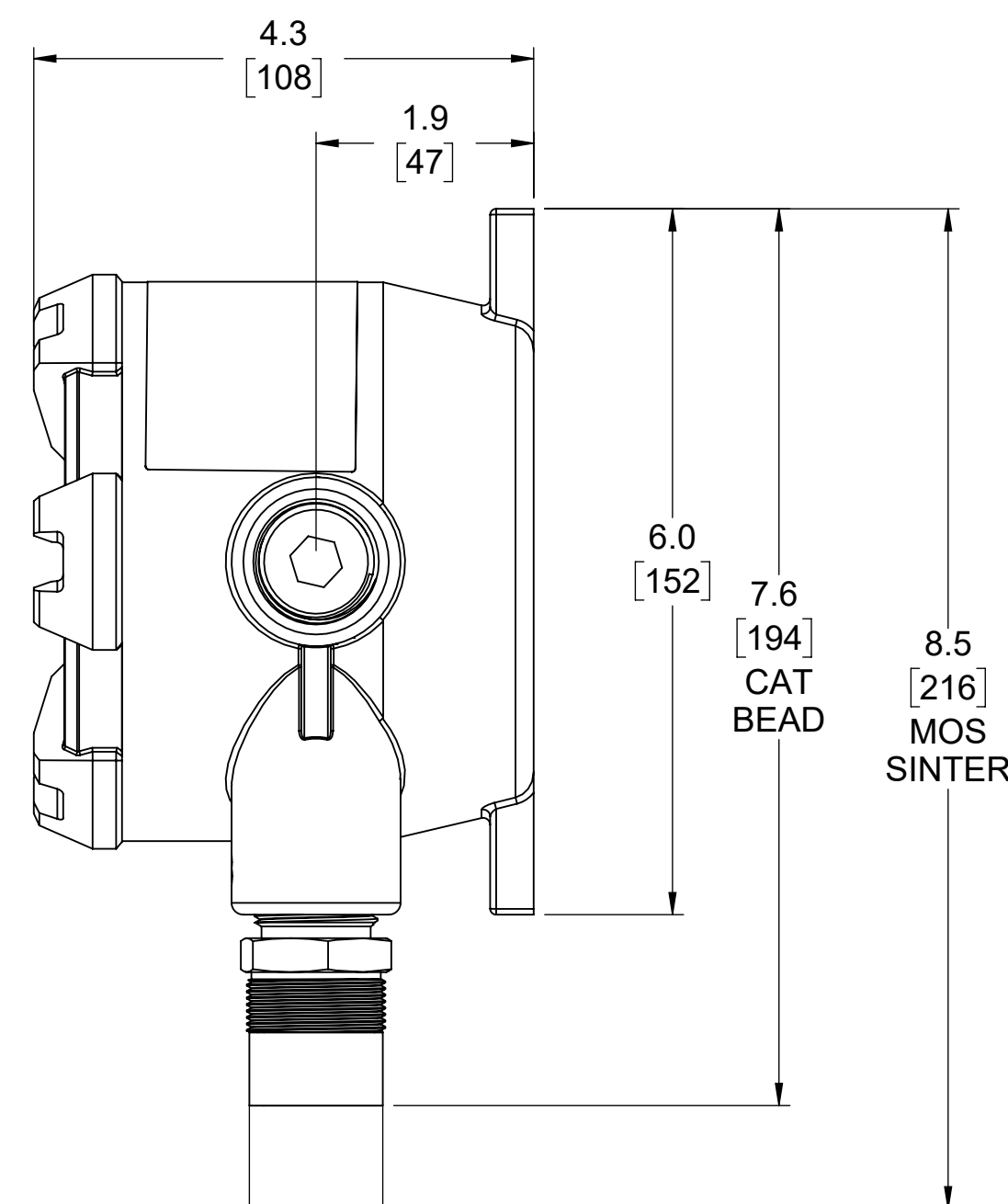
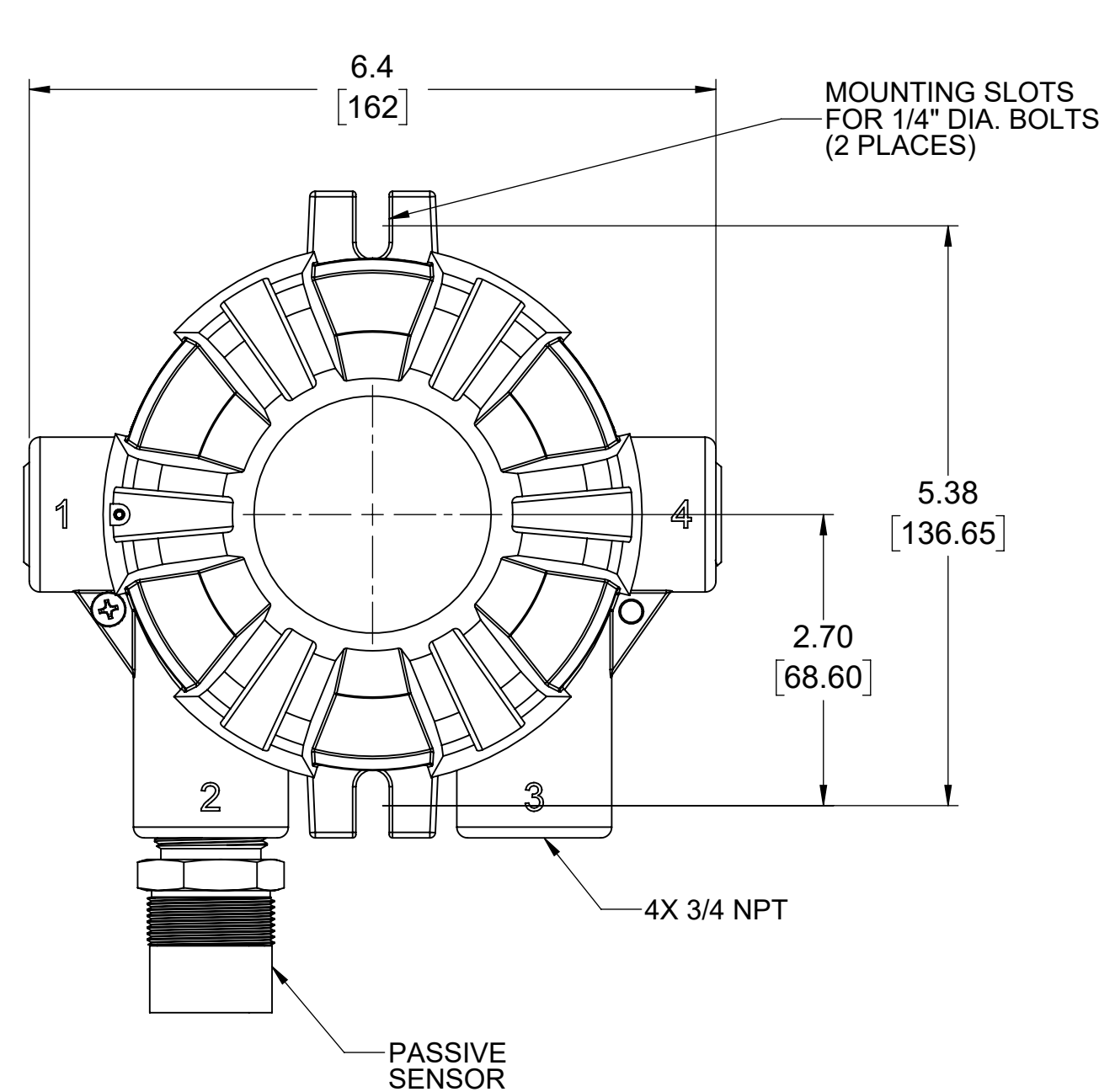


TABLE 1 (ENGLISH)

MAXIMUM WIRE LENGTH TO MAIN TRANSMITTER WITH LOCAL MOUNTED SENSOR(S)							
Sensor Mounting	Local Sensor 1	Local Sensor 2	Max Power (W)	18AWG (Ft)	16AWG (Ft)	14AWG (Ft)	12AWG (Ft)
Locally Mounted	Passive CB	None	6.0	1280	2030	3220	5130
	Passive MOS	None	10.8	710	1130	1790	2850
	Digital CB	None	6.0	1280	2030	3220	5130
	Digital Toxic	None	3.6	2130	3380	5370	8550
	IR400/IR700	None	8.9	860	1370	2180	3470
		Digital CB	11.8	650	1040	1650	2620
		Digital Toxic	9.6	800	1270	2020	3210

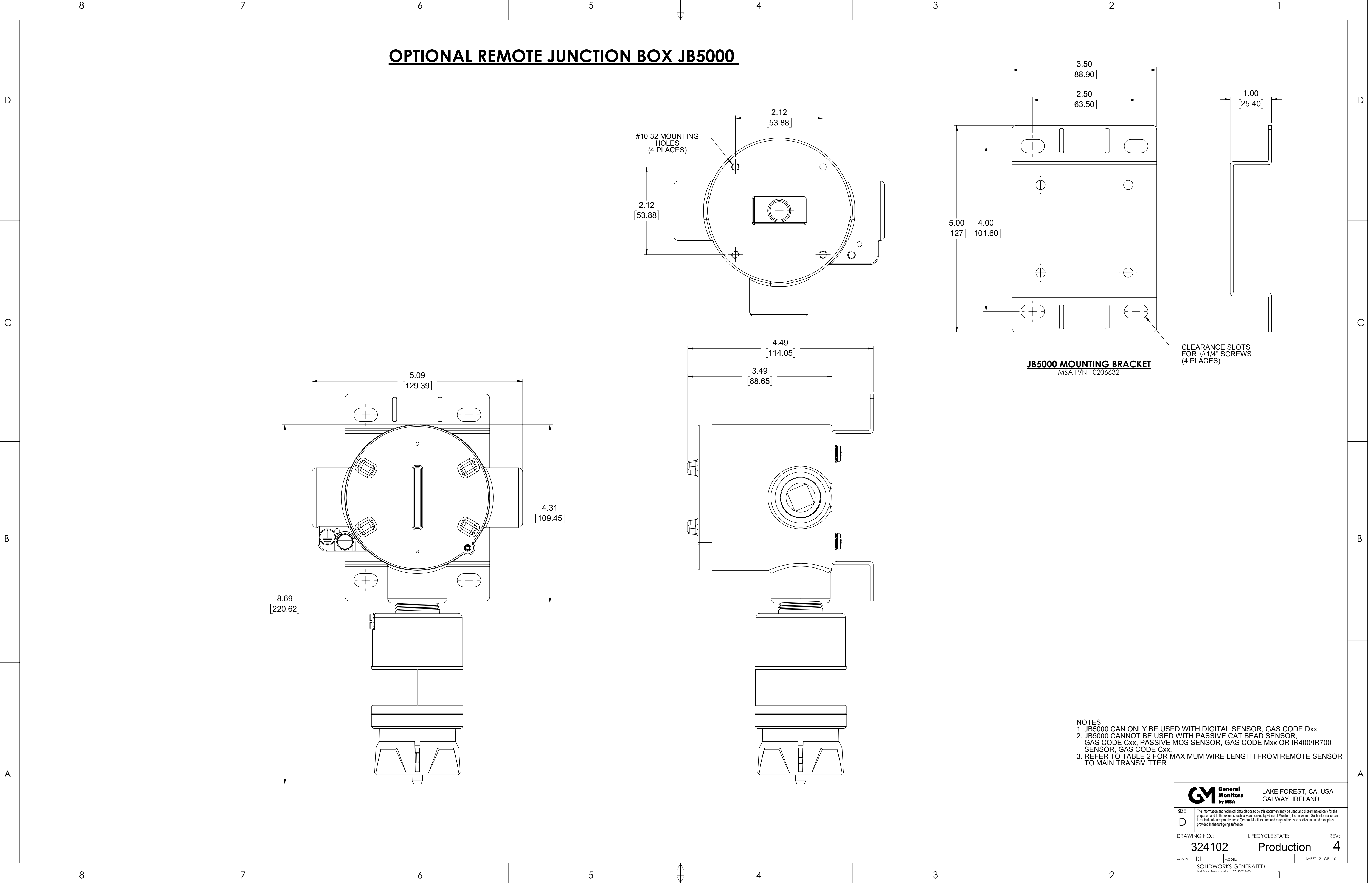
TABLE 1 (METRIC)

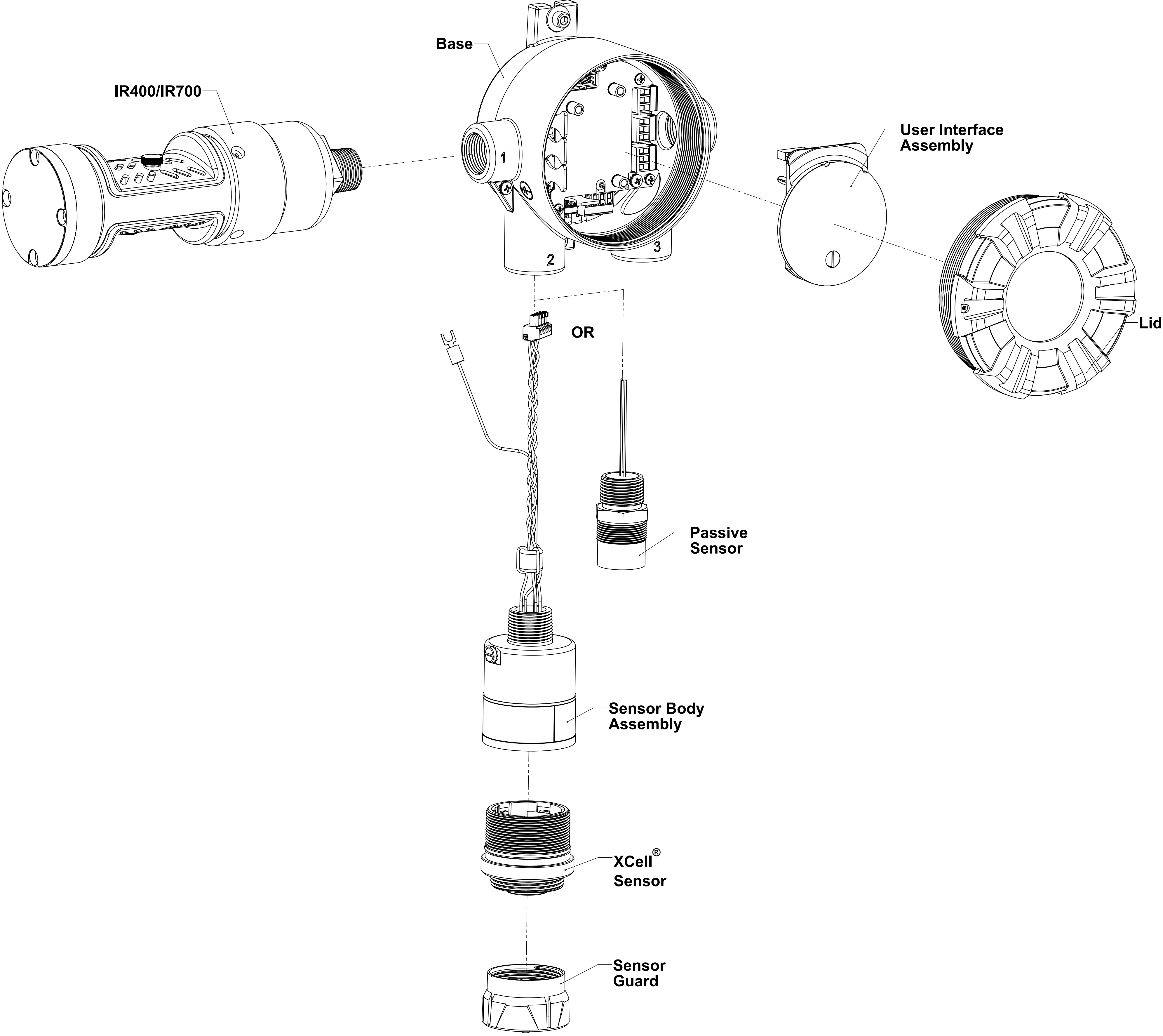
MAXIMUM WIRE LENGTH TO MAIN TRANSMITTER WITH LOCAL MOUNTED SENSOR(S)							
Sensor Mounting	Local Sensor 1	Local Sensor 2	Max Power (W)	1mm ² (m)	1.5mm ² (m)	2.5mm ² (m)	4mm ² (m)
Locally Mounted	Passive CB	None	6.0	470	710	1180	1890
	Passive MOS	None	10.8	260	390	660	1050
	Digital CB	None	6.0	470	710	1180	1890
	Digital Toxic	None	3.6	790	1180	1970	3150
		None	8.9	320	480	800	1280
	IR400/IR700	Digital CB	11.8	240	360	600	960
		Digital Toxic	9.6	290	440	740	1180

* CONSIDER 1 AMP INRUSH CURRENT WITH A 1 ms DURATION FOR EACH S5000 ON THE POWER SUPPLY


USERS MUST READ AND UNDERSTAND INSTRUCTION MANUAL
MANS5000.

UNLESS OTHERWISE SPECIFIED		<div>The information and technical data disclosed by this document may be used and disseminated only for the purposes and to the extent specifically authorized by General Monitors, Inc. in writing. Such information and technical data are proprietary to General Monitors, Inc. and may not be used or disseminated except as provided in the foregoing sentence.</div> <div><div><div><div>GM</div><div>General Monitors by MSA</div></div><div>LAKE FOREST, CA, USA GALWAY, IRELAND</div></div></div>		
THIRD ANGLE PROJECTION				
<div><div><div><div></div><div>DIMENSIONS INCH[mm]</div></div></div></div>				
DRAWN	B.MONAHAN	10APR17	<div><div>SIZE:</div><div>TITLE:</div><div>DINSTALLATION OUTLINE, \$5000</div></div>	
CHK'D.	N.CICCONE	19APR17		
ENGR.	G.BAI	19APR17	<div><div><div>DRAWING NO.:324102</div><div>LIFECYCLE STATE:Production</div><div>REV:4</div></div><div><div>SCALE:1:1</div><div>MODEL\$5000</div><div>SHEET 1 OF 10</div></div></div>	
CUSTOMER _____				
P.O. NO. _____				
GM NO. _____				
LOCATION _____				
TAG NO. _____				
TOTAL NO. OF UNITS _____				

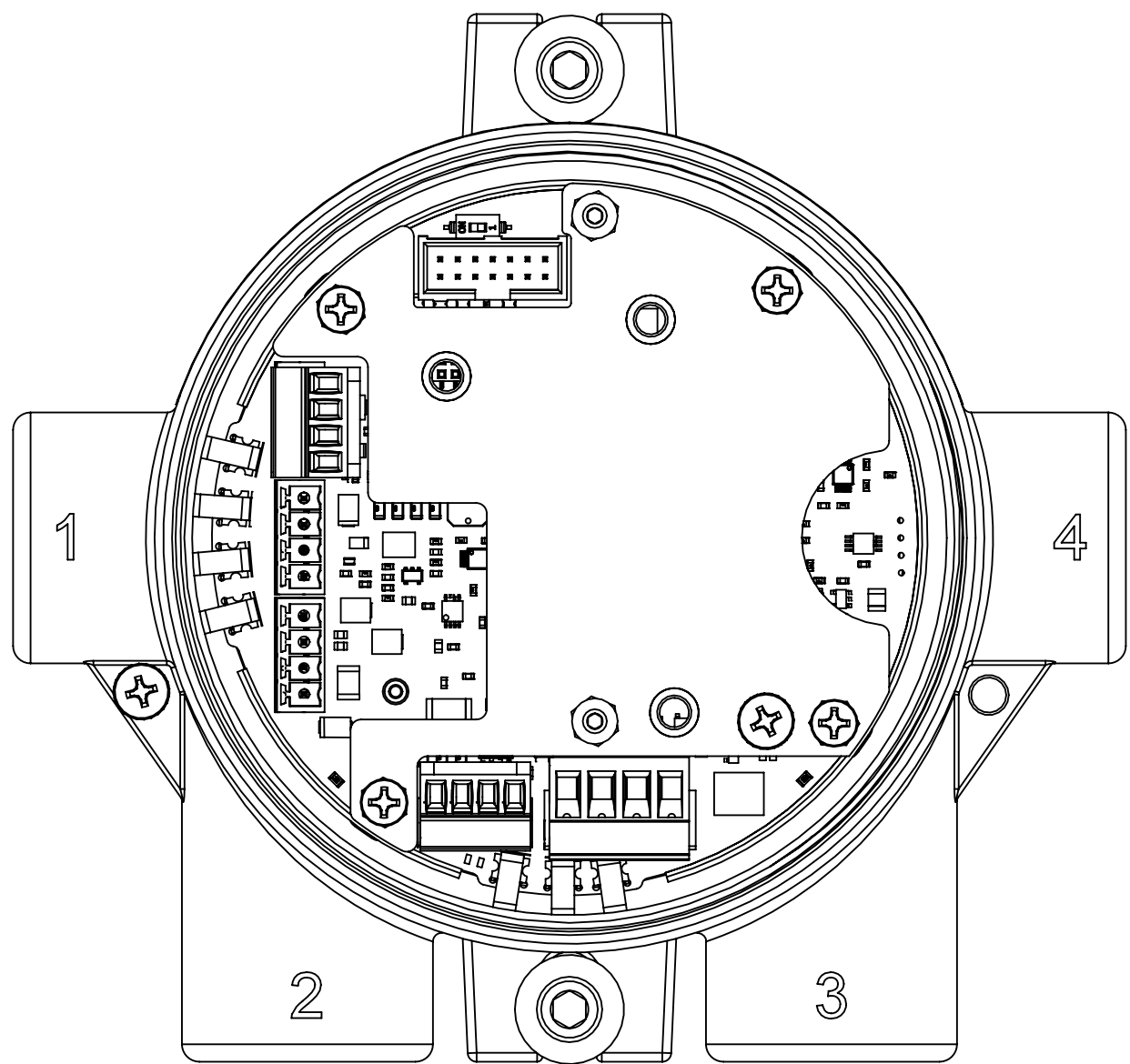
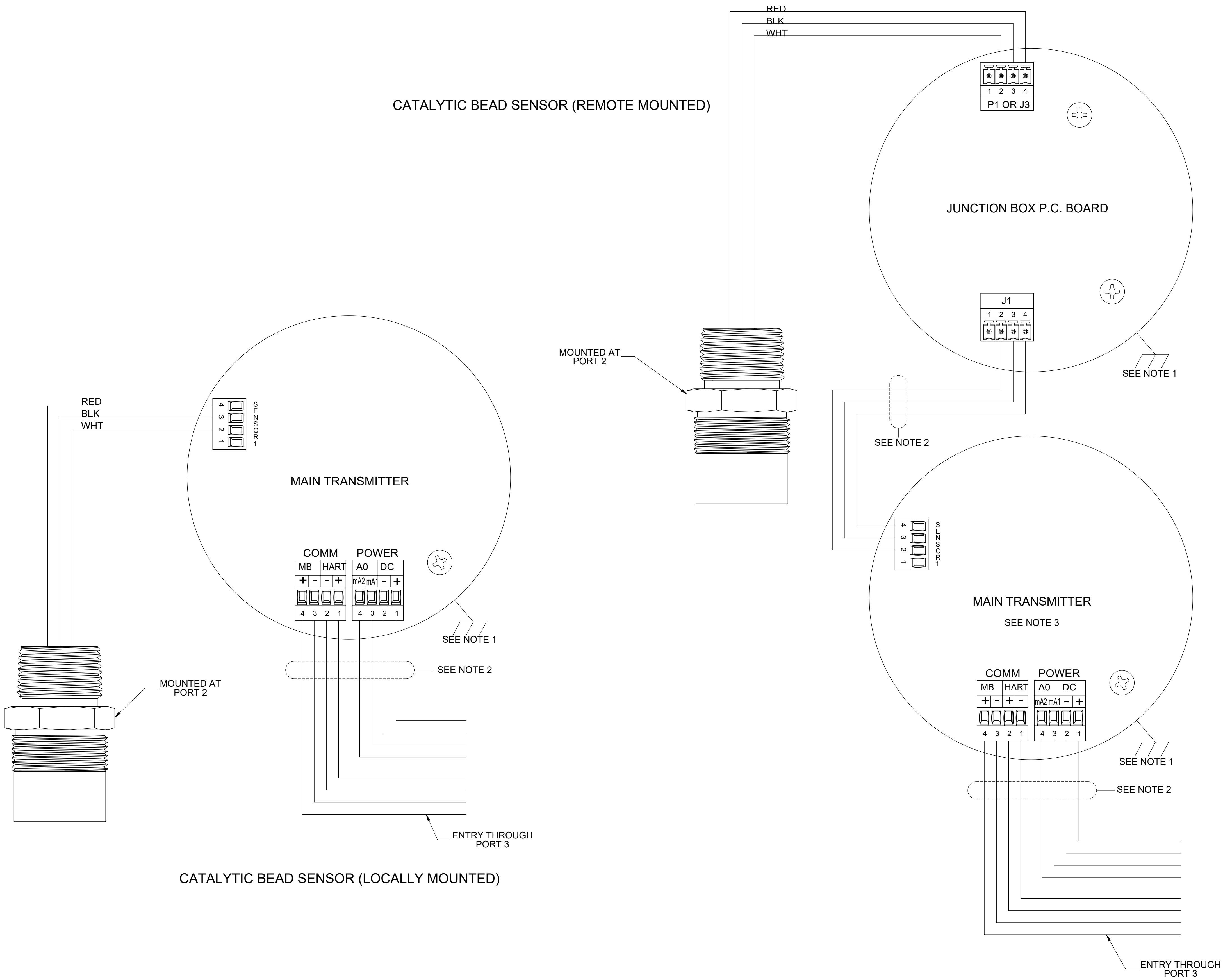





NOTES:
1. JB5000 CANNOT BE USED WITH PASSIVE CAT BEAD SENSOR,
GAS CODE Cxx, PASSIVE MOS SENSOR, GAS CODE Mxx OR
IR400/IR700 SENSOR, GAS CODE Cxx.

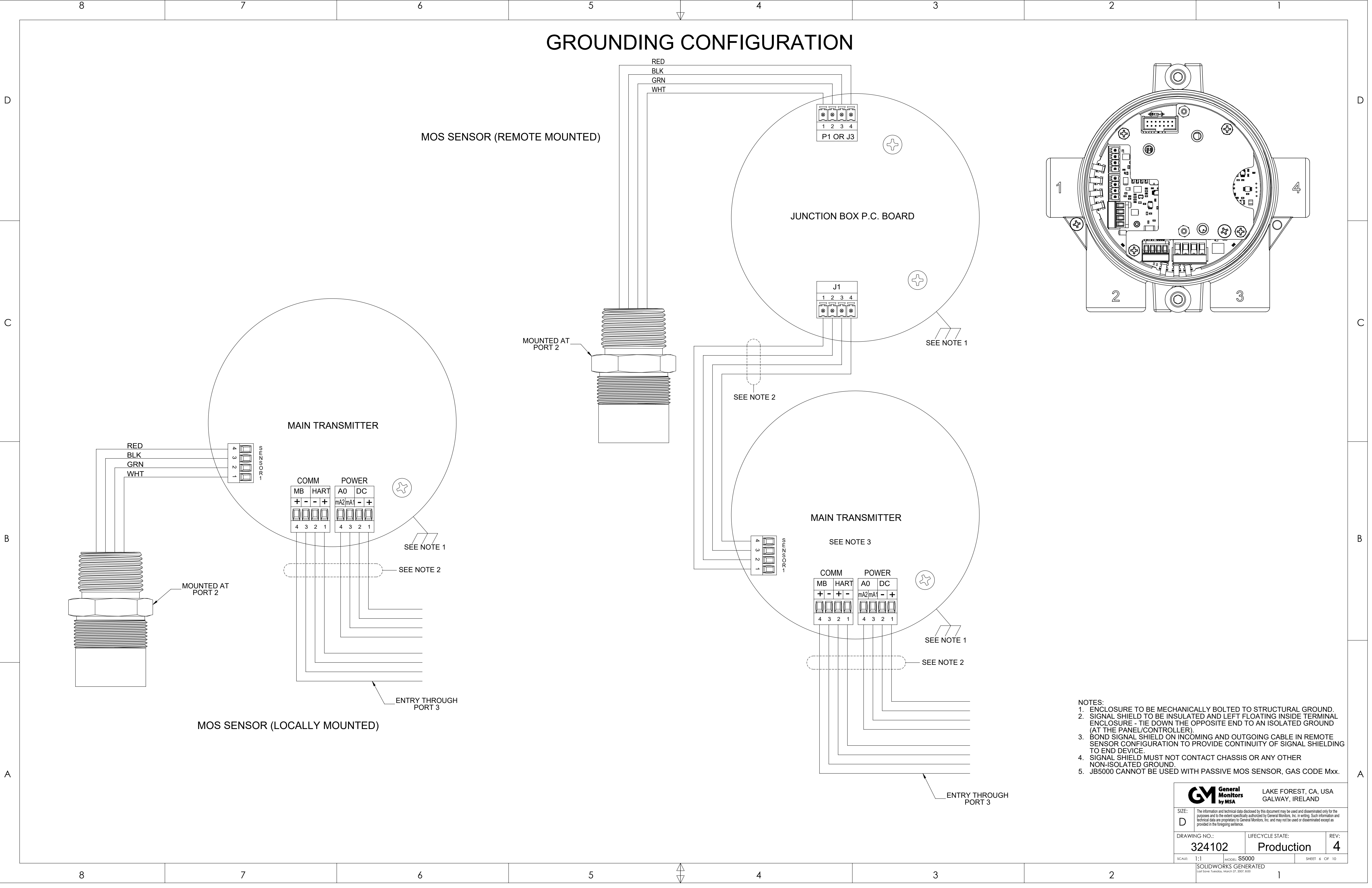
		LAKE FOREST, CA, USA GALWAY, IRELAND	
SIZE: D	The information and technical data disclosed by this document may be used and disseminated only for the purposes and to the extent specifically authorized by General Monitors, Inc. in writing. Such information and technical data are proprietary to General Monitors, Inc. and may not be used or disseminated except as provided in the foregoing sentence.		
DRAWING NO.: 324102		LIFECYCLE STATE: Production	REV: 4
SCALE: 1:1	MODEL: S5000	SHEET 4 OF 10	
SOLIDWORKS GENERATED <small>Last Save: Tuesday, January 29, 2019 11:33:32 AM</small>			

GROUNDING CONFIGURATION



- NOTES:
1. ENCLOSURE TO BE MECHANICALLY BOLTED TO STRUCTURAL GROUND.
 2. SIGNAL SHIELD TO BE INSULATED AND LEFT FLOATING INSIDE TERMINAL ENCLOSURE - TIE DOWN THE OPPOSITE END TO AN ISOLATED GROUND (AT THE PANEL/CONTROLLER).
 3. BOND SIGNAL SHIELD ON INCOMING AND OUTGOING CABLE IN REMOTE SENSOR CONFIGURATION TO PROVIDE CONTINUITY OF SIGNAL SHIELDING TO END DEVICE.
 4. SIGNAL SHIELD MUST NOT CONTACT CHASSIS OR ANY OTHER NON-ISOLATED GROUND.
 5. JB5000 CANNOT BE USED WITH PASSIVE CAT BEAD SENSOR, GAS CODE Cxx.

 General Monitors by MSA		LAKE FOREST, CA, USA GALWAY, IRELAND	
SIZE: D	The information and technical data disclosed by this document may be used and disseminated only for the purposes and to the extent specifically authorized by General Monitors, Inc. in writing. Such information and technical data are proprietary to General Monitors, Inc. and may not be used or disseminated except as provided in the foregoing sentence.		
DRAWING NO.: 324102		LIFECYCLE STATE: Production	REV: 4
SCALE: 1:1	MODEL: S5000	SHEET 5 OF 10	
SOLIDWORKS GENERATED Last Save: Tuesday, March 27, 2007, 8:00			
1			



GROUNDING CONFIGURATION

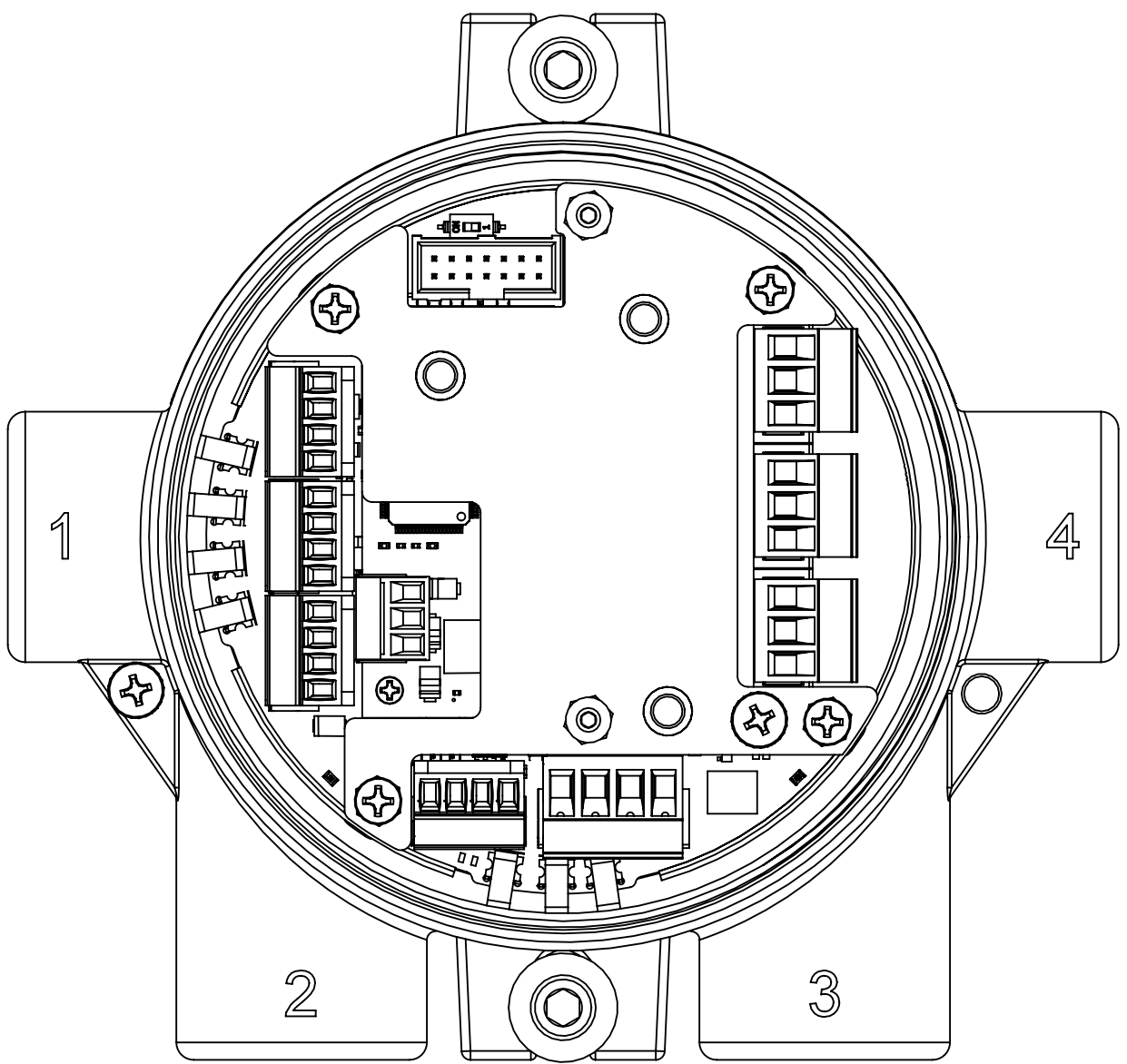
DIGITAL SENSOR (LOCALLY & REMOTE MOUNTED)

MAIN TRANSMITTER


MAIN TRANSMITTER

JUNCTION BOX P.C. BOARD

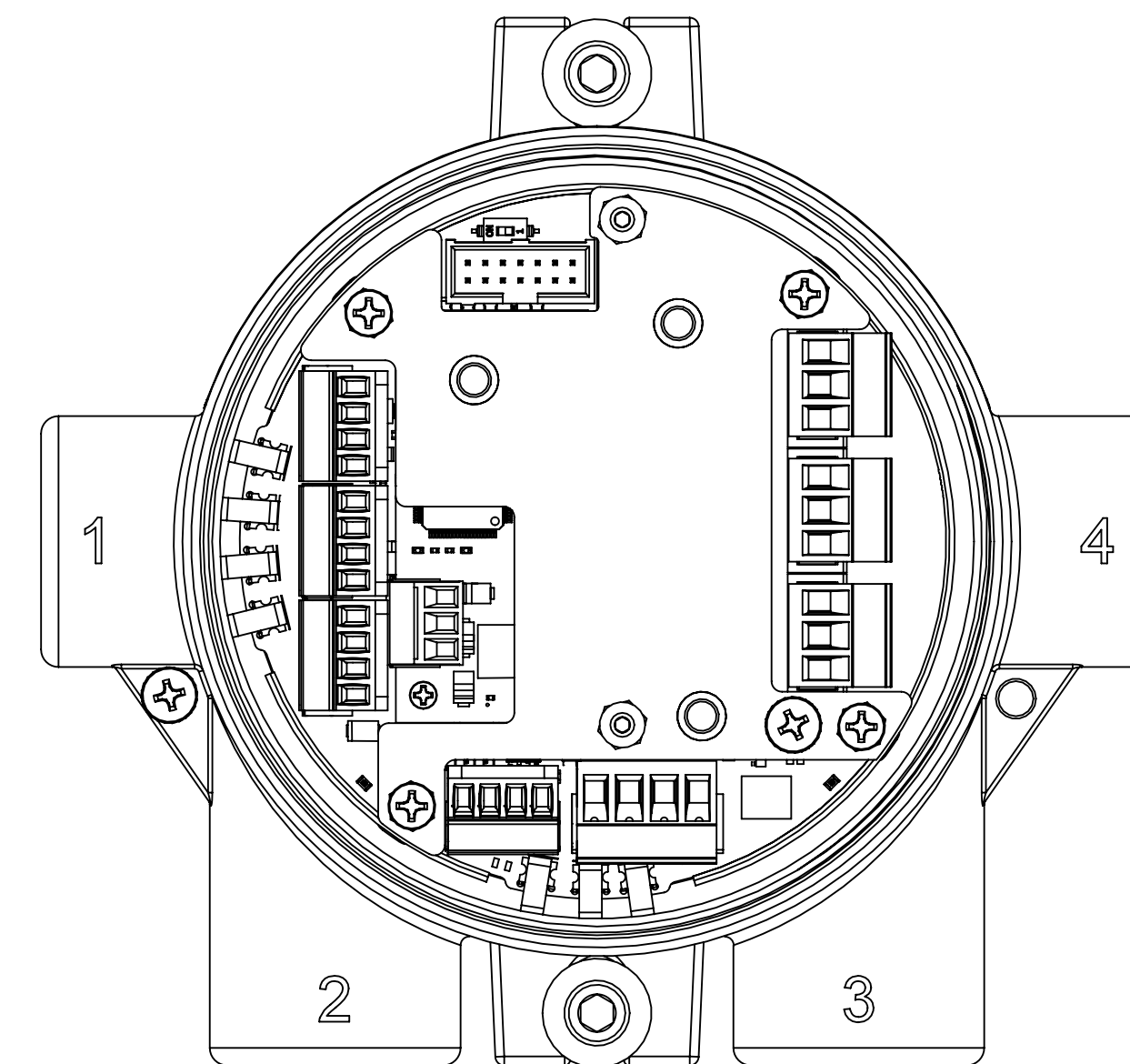
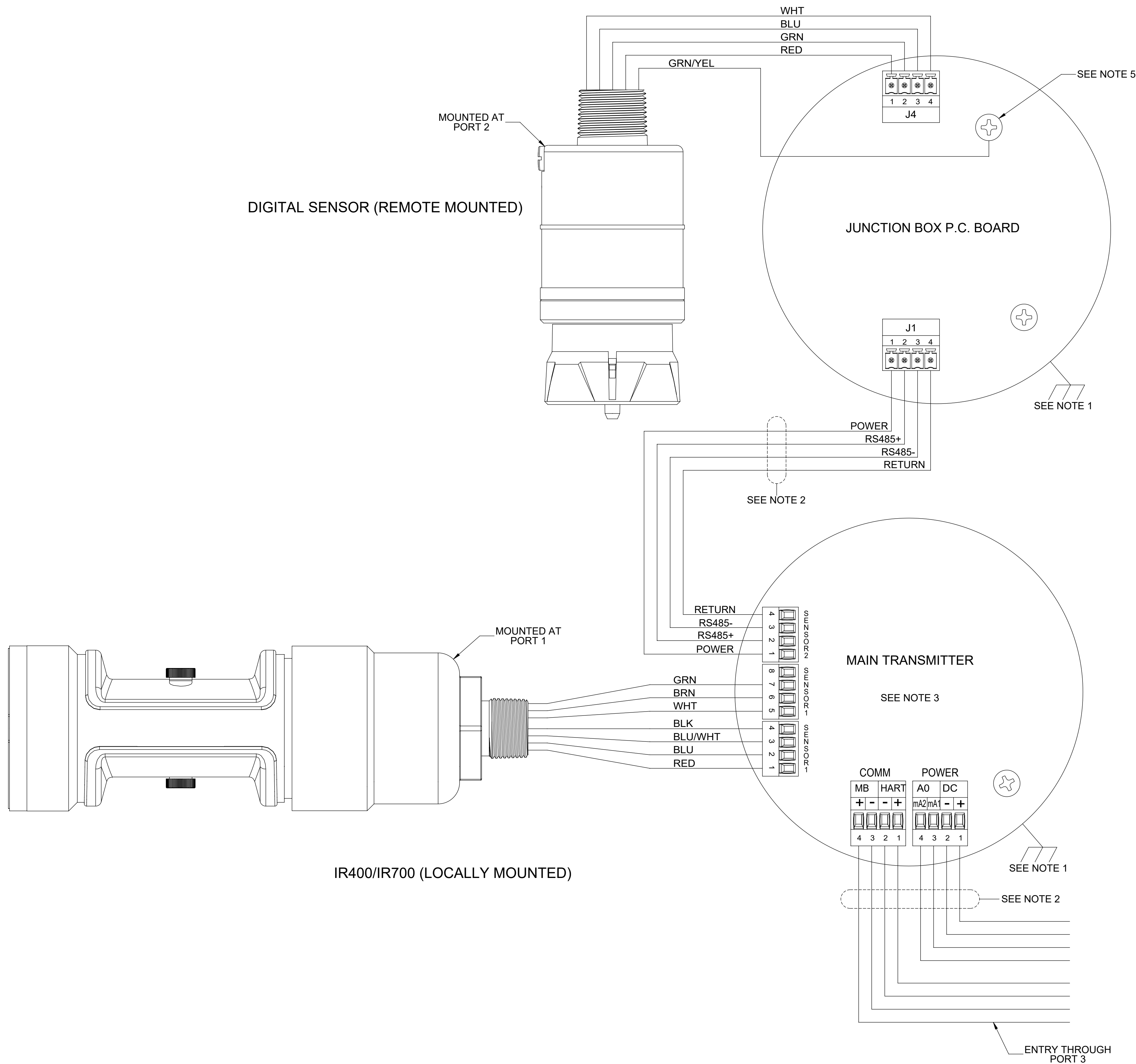
DIGITAL SENSOR (LOCALLY MOUNTED)




- NOTES:
1. ENCLOSURE TO BE MECHANICALLY BOLTED TO STRUCTURAL GROUND.
 2. SIGNAL SHIELD TO BE INSULATED AND LEFT FLOATING INSIDE TERMINAL ENCLOSURE - TIE DOWN THE OPPOSITE END TO AN ISOLATED GROUND (AT THE PANEL/CONTROLLER).
 3. BOND SIGNAL SHIELD ON INCOMING AND OUTGOING CABLE IN REMOTE SENSOR CONFIGURATION TO PROVIDE CONTINUITY OF SIGNAL SHIELDING TO END DEVICE.
 4. SIGNAL SHIELD MUST NOT CONTACT CHASSIS OR ANY OTHER NON-ISOLATED GROUND.
 5. GREEN/YELLOW SENSOR WIRE TO BE BONDED TO ENCLOSURE CASE SCREW.

 General Monitors by MSA		LAKE FOREST, CA, USA GALWAY, IRELAND	
SIZE: D	The information and technical data disclosed by this document may be used and disseminated only for the purposes and to the extent specifically authorized by General Monitors, Inc. in writing. Such information and technical data are proprietary to General Monitors, Inc. and may not be used or disseminated except as provided in the foregoing sentence.		
DRAWING NO.:		LIFECYCLE STATE:	REV:
324102		Production	4
SCALE: 1:1	MODEL: S5000	SHEET 7 OF 10	
SOLIDWORKS GENERATED Last Save: Tuesday, March 27, 2007, 8:00			

GROUNDING CONFIGURATION



- NOTES:
- ENCLOSURE TO BE MECHANICALLY BOLTED TO STRUCTURAL GROUND.
 - SIGNAL SHIELD TO BE INSULATED AND LEFT FLOATING INSIDE TERMINAL ENCLOSURE - TIE DOWN THE OPPOSITE END TO AN ISOLATED GROUND (AT THE PANEL/CONTROLLER).
 - BOND SIGNAL SHIELD ON INCOMING AND OUTGOING CABLE IN REMOTE SENSOR CONFIGURATION TO PROVIDE CONTINUITY OF SIGNAL SHIELDING TO END DEVICE.
 - SIGNAL SHIELD MUST NOT CONTACT CHASSIS OR ANY OTHER NON-ISOLATED GROUND.
 - GREEN/YELLOW SENSOR WIRE TO BE BONDED TO ENCLOSURE CASE SCREW.

		LAKE FOREST, CA, USA GALWAY, IRELAND	
SIZE: D	The information and technical data disclosed by this document may be used and disseminated only for the purposes and to the extent specifically authorized by General Monitors, Inc. in writing. Such information and technical data are proprietary to General Monitors, Inc. and may not be used or disseminated except as provided in the foregoing sentence.		
DRAWING NO.:		LIFECYCLE STATE:	REV:
324102		Production	4
SCALE: 1:1	MODEL: S5000		SHEET 8 OF 10

SOLIDWORKS GENERATED
Last Save: Tuesday, March 27, 2007, 8:00

GROUNDING CONFIGURATION

IR400/IR700 (REMOTE MOUNTED)

MOUNTED AT PORT 1

JUNCTION BOX P.C. BOARD

MAIN TRANSMITTER

DIGITAL SENSOR (LOCALLY MOUNTED)

MOUNTED AT PORT 2

ENTRY THROUGH PORT 3

SEE NOTE 1

SEE NOTE 2

SEE NOTE 3

SEE NOTE 4

SEE NOTE 5

Wiring Labels: GRN, BLU/WHT, BLU, BLK, BRN, WHT, RED, P1, P2, +24V, 4-20mA, CAL, COM, FG, GRN/YEL, WHT, BLU, GRN, RED, FG, CAL, 4-20mA, COM, +24V, COMM (MB, HART, A0, DC), POWER (mA2, mA1, -, +).

NOTES:

- ENCLOSURE TO BE MECHANICALLY BOLTED TO STRUCTURAL GROUND.
- SIGNAL SHIELD TO BE INSULATED AND LEFT FLOATING INSIDE TERMINAL ENCLOSURE - TIE DOWN THE OPPOSITE END TO AN ISOLATED GROUND (AT THE PANEL/CONTROLLER).
- BOND SIGNAL SHIELD ON INCOMING AND OUTGOING CABLE IN REMOTE SENSOR CONFIGURATION TO PROVIDE CONTINUITY OF SIGNAL SHIELDING TO END DEVICE.
- SIGNAL SHIELD MUST NOT CONTACT CHASSIS OR ANY OTHER NON-ISOLATED GROUND.
- GREEN/YELLOW SENSOR WIRE TO BE BONDED TO ENCLOSURE CASE SCREW.
- JB5000 CANNOT BE USED WITH IR400/IR700 SENSOR, GAS CODE Cxx.

General Monitors by MSA

LAKE FOREST, CA, USA
GALWAY, IRELAND

SIZE: D

DRAWING NO.: 324102

LIFECYCLE STATE: Production

REV: 4

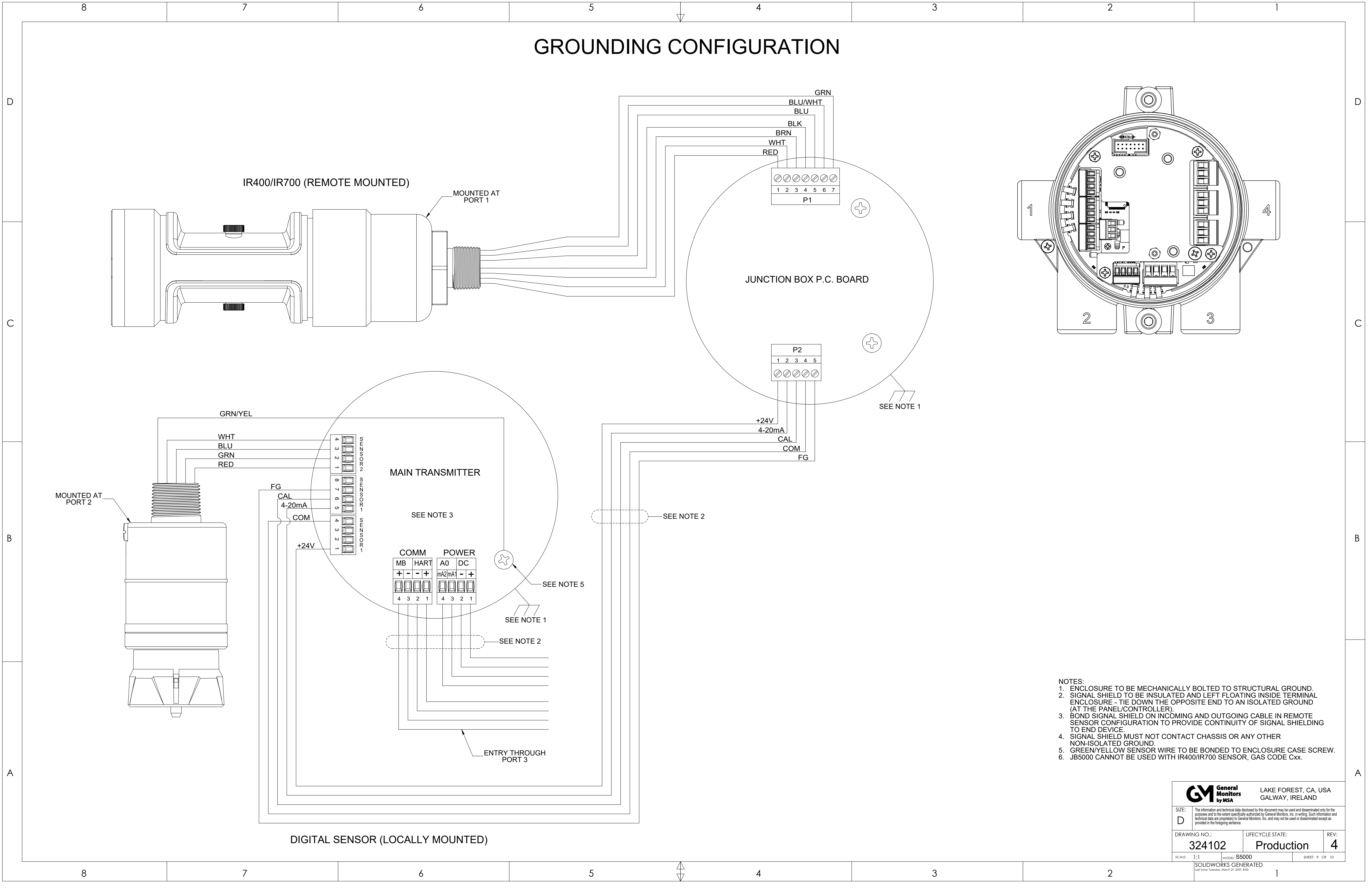
SCALE: 1:1

MODEL: S5000

SHEET 9 OF 10

SOLIDWORKS GENERATED

LAST SAVE: Tuesday, March 27, 2018, 8:00



- GROUNDING CONFIGURATION**

IR400/IR700 (REMOTE MOUNTED)

MOUNTED AT PORT 1

JUNCTION BOX P.C. BOARD

MAIN TRANSMITTER

DIGITAL SENSOR (LOCALLY MOUNTED)

MOUNTED AT PORT 2

ENTRY THROUGH PORT 3

SEE NOTE 1

SEE NOTE 2

SEE NOTE 3

SEE NOTE 4

SEE NOTE 5

Wiring Labels: GRN, BLU/WHT, BLU, BLK, BRN, WHT, RED, GRN/YEL, FG, CAL, COM, +24V, 4-20mA, MB, HART, A0, DC, mA2, mA1, mA2, mA1.

Terminal Block P1: 1 2 3 4 5 6 7

Terminal Block P2: 1 2 3 4 5

Terminal Block P3: 1 2 3 4 5 6 7

Terminal Block P4: 1 2 3 4 5 6 7

Terminal Block P5: 1 2 3 4 5 6 7

Terminal Block P6: 1 2 3 4 5 6 7

Terminal Block P7: 1 2 3 4 5 6 7

Terminal Block P8: 1 2 3 4 5 6 7

Terminal Block P9: 1 2 3 4 5 6 7

Terminal Block P10: 1 2 3 4 5 6 7

Terminal Block P11: 1 2 3 4 5 6 7

Terminal Block P12: 1 2 3 4 5 6 7

Terminal Block P13: 1 2 3 4 5 6 7

Terminal Block P14: 1 2 3 4 5 6 7

Terminal Block P15: 1 2 3 4 5 6 7

Terminal Block P16: 1 2 3 4 5 6 7

Terminal Block P17: 1 2 3 4 5 6 7

Terminal Block P18: 1 2 3 4 5 6 7

Terminal Block P19: 1 2 3 4 5 6 7

Terminal Block P20: 1 2 3 4 5 6 7

Terminal Block P21: 1 2 3 4 5 6 7

Terminal Block P22: 1 2 3 4 5 6 7

Terminal Block P23: 1 2 3 4 5 6 7

Terminal Block P24: 1 2 3 4 5 6 7

Terminal Block P25: 1 2 3 4 5 6 7

Terminal Block P26: 1 2 3 4 5 6 7

Terminal Block P27: 1 2 3 4 5 6 7

Terminal Block P28: 1 2 3 4 5 6 7

Terminal Block P29: 1 2 3 4 5 6 7

Terminal Block P30: 1 2 3 4 5 6 7

Terminal Block P31: 1 2 3 4 5 6 7

Terminal Block P32: 1 2 3 4 5 6 7

Terminal Block P33: 1 2 3 4 5 6 7

Terminal Block P34: 1 2 3 4 5 6 7

Terminal Block P35: 1 2 3 4 5 6 7

Terminal Block P36: 1 2 3 4 5 6 7

Terminal Block P37: 1 2 3 4 5 6 7

Terminal Block P38: 1 2 3 4 5 6 7

Terminal Block P39: 1 2 3 4 5 6 7

Terminal Block P40: 1 2 3 4 5 6 7

Terminal Block P41: 1 2 3 4 5 6 7

Terminal Block P42: 1 2 3 4 5 6 7

Terminal Block P43: 1 2 3 4 5 6 7

Terminal Block P44: 1 2 3 4 5 6 7

Terminal Block P45: 1 2 3 4 5 6 7

Terminal Block P46: 1 2 3 4 5 6 7

Terminal Block P47: 1 2 3 4 5 6 7

Terminal Block P48: 1 2 3 4 5 6 7

Terminal Block P49: 1 2 3 4 5 6 7

Terminal Block P50: 1 2 3 4 5 6 7

Terminal Block P51: 1 2 3 4 5 6 7

Terminal Block P52: 1 2 3 4 5 6 7

Terminal Block P53: 1 2 3 4 5 6 7

Terminal Block P54: 1 2 3 4 5 6 7

Terminal Block P55: 1 2 3 4 5 6 7

Terminal Block P56: 1 2 3 4 5 6 7

Terminal Block P57: 1 2 3 4 5 6 7

Terminal Block P58: 1 2 3 4 5 6 7

Terminal Block P59: 1 2 3 4 5 6 7

Terminal Block P60: 1 2 3 4 5 6 7

Terminal Block P61: 1 2 3 4 5 6 7

Terminal Block P62: 1 2 3 4 5 6 7

Terminal Block P63: 1 2 3 4 5 6 7

Terminal Block P64: 1 2 3 4 5 6 7

Terminal Block P65: 1 2 3 4 5 6 7

Terminal Block P66: 1 2 3 4 5 6 7

Terminal Block P67: 1 2 3 4 5 6 7

Terminal Block P68: 1 2 3 4 5 6 7

Terminal Block P69: 1 2 3 4 5 6 7

Terminal Block P70: 1 2 3 4 5 6 7

Terminal Block P71: 1 2 3 4 5 6 7

Terminal Block P72: 1 2 3 4 5 6 7

Terminal Block P73: 1 2 3 4 5 6 7

Terminal Block P74: 1 2 3 4 5 6 7

Terminal Block P75: 1 2 3 4 5 6 7

Terminal Block P76: 1 2 3 4 5 6 7

Terminal Block P77: 1 2 3 4 5 6 7

Terminal Block P78: 1 2 3 4 5 6 7

Terminal Block P79: 1 2 3 4 5 6 7

Terminal Block P80: 1 2 3 4 5 6 7

Terminal Block P81: 1 2 3 4 5 6 7

Terminal Block P82: 1 2 3 4 5 6 7

Terminal Block P83: 1 2 3 4 5 6 7

Terminal Block P84: 1 2 3 4 5 6 7

Terminal Block P85: 1 2 3 4 5 6 7

Terminal Block P86: 1 2 3 4 5 6 7

Terminal Block P87: 1 2 3 4 5 6 7

Terminal Block P88: 1 2 3 4 5 6 7

Terminal Block P89: 1 2 3 4 5 6 7

Terminal Block P90: 1 2 3 4 5 6 7

Terminal Block P91: 1 2 3 4 5 6 7

Terminal Block P92: 1 2 3 4 5 6 7

Terminal Block P93: 1 2 3 4 5 6 7

Terminal Block P94: 1 2 3 4 5 6 7

Terminal Block P95: 1 2 3 4 5 6 7

Terminal Block P96: 1 2 3 4 5 6 7

Terminal Block P97: 1 2 3 4 5 6 7

Terminal Block P98: 1 2 3 4 5 6 7

Terminal Block P99: 1 2 3 4 5 6 7

Terminal Block P100: 1 2 3 4 5 6 7

Terminal Block P101: 1 2 3 4 5 6 7

Terminal Block P102: 1 2 3 4 5 6 7

Terminal Block P103: 1 2 3 4 5 6 7

Terminal Block P104: 1 2 3 4 5 6 7

Terminal Block P105: 1 2 3 4 5 6 7

Terminal Block P106: 1 2 3 4 5 6 7

Terminal Block P107: 1 2 3 4 5 6 7

Terminal Block P108: 1 2 3 4 5 6 7

Terminal Block P109: 1 2 3 4 5 6 7

Terminal Block P110: 1 2 3 4 5 6 7

Terminal Block P111: 1 2 3 4 5 6 7

Terminal Block P112: 1 2 3 4 5 6 7

Terminal Block P113: 1 2 3 4 5 6 7

Terminal Block P114: 1 2 3 4 5 6 7

Terminal Block P115: 1 2 3 4 5 6 7

Terminal Block P116: 1 2 3 4 5 6 7

Terminal Block P117: 1 2 3 4 5 6 7

Terminal Block P118: 1 2 3 4 5 6 7

Terminal Block P119: 1 2 3 4 5 6 7

Terminal Block P120: 1 2 3 4 5 6 7

Terminal Block P121: 1 2 3 4 5 6 7

Terminal Block P122: 1 2 3 4 5 6 7

Terminal Block P123: 1 2 3 4 5 6 7

Terminal Block P124: 1 2 3 4 5 6 7

Terminal Block P125: 1 2 3 4 5 6 7

Terminal Block P126

