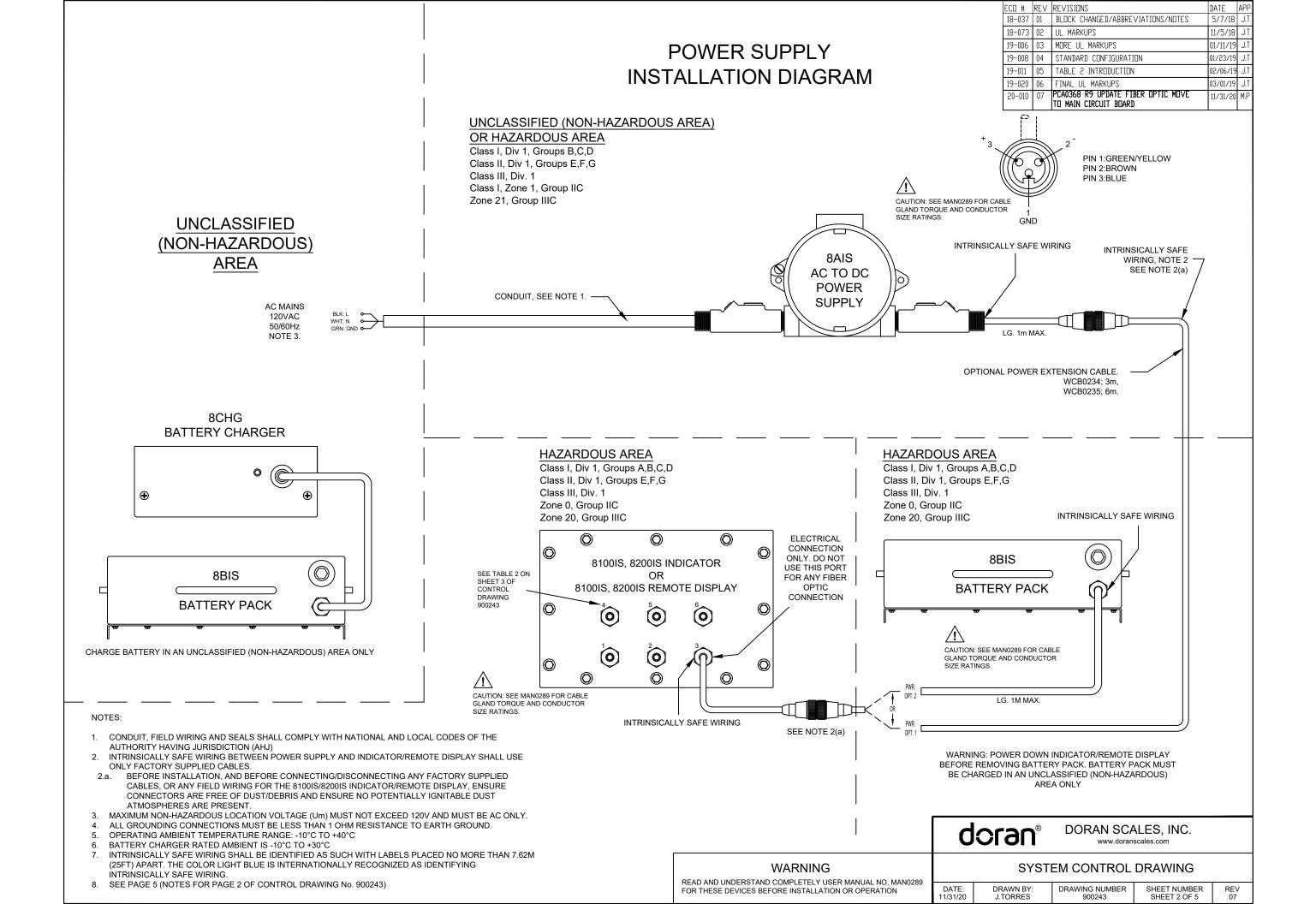
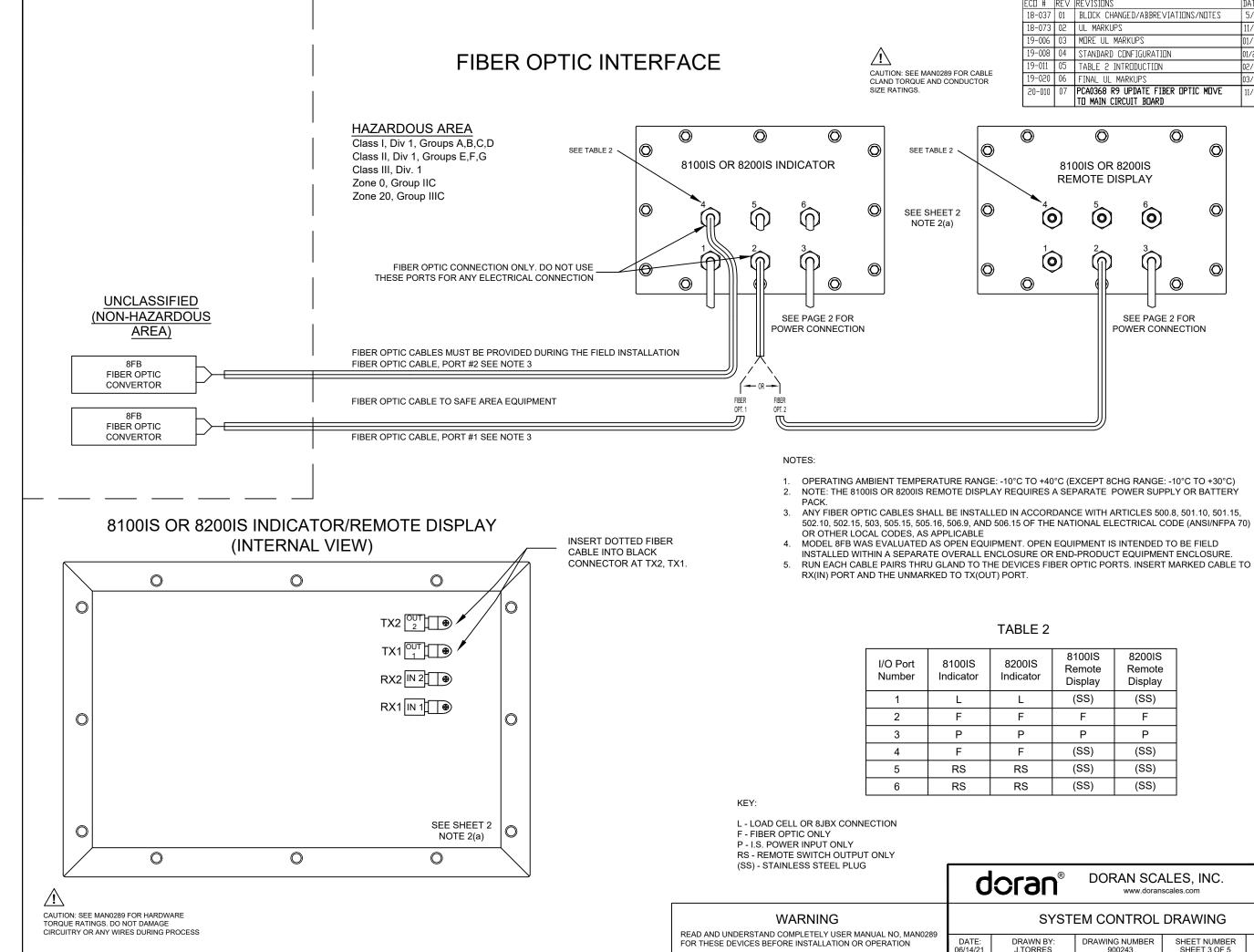


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	19-011	05		2 INTRODUCT					02/06/19	
	19-020	06	FINAL	UL MARKUPS					03/01/19	J.T
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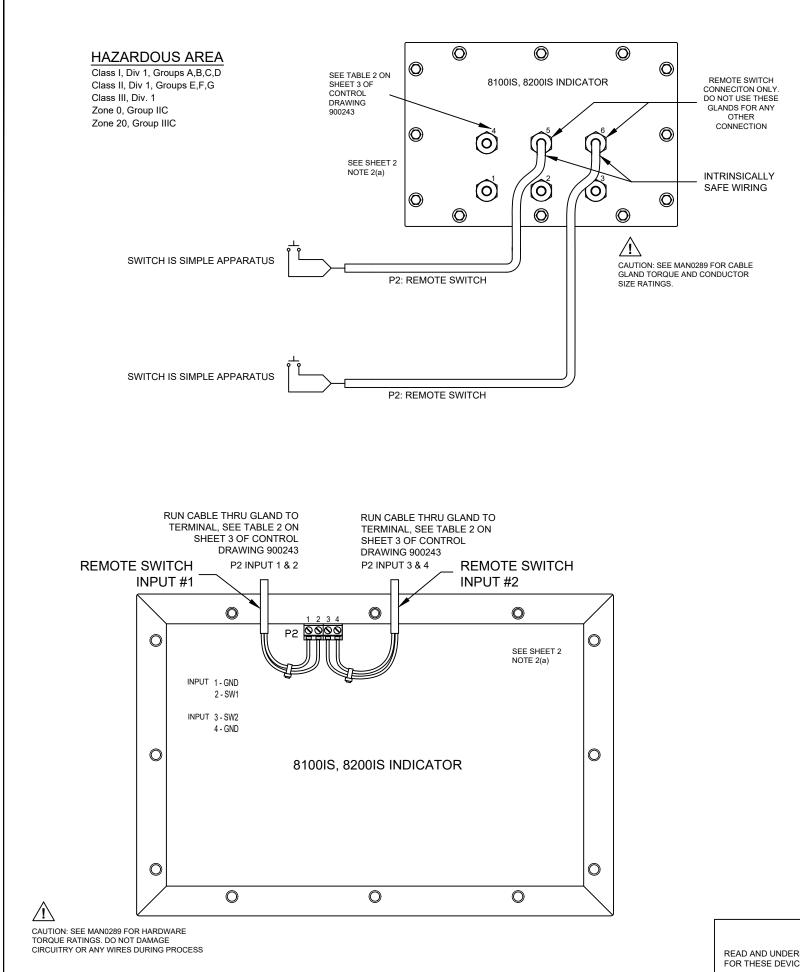
ECD #	REV	REVISIONS	DATE	APP
18-037	01	BLDCK CHANGED/ABBREVIATIONS/NOTES	5/7/18	J.T
18-073	02	UL MARKUPS	11/5/18	J.T
19-006	03	MORE UL MARKUPS	01/11/19	J.T
19-008	04	STANDARD CONFIGURATION	01/23/19	J,T
19-011	05	TABLE 2 INTRODUCTION	02/06/19	J,T
19-020	06	FINAL UL MARKUPS	03/01/19	J.T
20-010	07	PCA0368 R9 UPDATE FIBER DPTIC MOVE TO MAIN CIRCUIT BOARD	11/31/20	M.P

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SYST	EM CONTROL	DRAWING	
AWN BY:	DRAWING NUMBER	SHEET NUMBER	REV
TORRES	900243	SHEET 3 OF 5	07

REMOTE SWITCH WIRING



OUTPUT ENTITY PARAMETERS						
DESCRIPTION (LOCATION)	U₀	lo	Po	C₀	Lo	
REMOTE SWITCH #1 & #2	7.14 V	0.133 A	0.217 W	13.5 uF	2.02 mH	

NOTES:

- ОНМ
- 3 7.62M (25FT) APART. THE COLOR LIGHT BLUE IS INTERNATIONALLY RECOGNIZED AS IDENTIFYING INTRINSICALLY SAFE WIRING.
- SUCH THAT THE OUTPUT VOLTAGE-CURRENT PLOT IS A STRAIGHT LINE DRAWN BETWEEN OPEN-CIRCUIT VOLTAGE AND SHORT-CIRCUIT CURRENT.
- ENTITY PARAMETERS CONFORMING WITH TABLE 1 BELOW.

TABLE 1				
I.S. Equipment/Switches			I.S. Doran Outputs	
V max (or Ui)	2		Voc or Vt (or Uo)	
l max (or li)	2	2	lsc or It (or lo)	
P max, Pi	≥	2	Po	
Ci + Ccable	1	2	Ca (or Co)	
Li + Lcable	1	~	La (or Lo)	

- 6. CAPACITANCE AND INDUCTANCE OF THE FIELD WIRING FROM THE INTRINSICALLY SAFE CAPACITANCE, Ca (OR Co), SHOWN ON ANY I.S. DORAN OUTPUTS USED. THE SAME APPLIES FOR INDUCTANCE (Lcable, Li AND La OR Lo, RESPECTIVELY). WHERE THE CABLE CAPACITANCE AND Lcable = 0.2 µH/ft.
- 7 WHERE MULTIPLE CIRCUITS EXTEND FROM THE SAME PIECE OF ASSOCIATED APPARATUS OR INSTALLING INTRINSICALLY SAFE EQUIPMENT.
- 8. 9
- WITH ANOTHER DEVICE WITH ANY OUTPUTS.
- OUTPUTS (EXCLUDING THE CABLE), THEN 50% OF Ca (OR Co) AND La (OR Lo) PARAMETERS ARE RESPECTIVELY.
- 11. APPLICABLE.

WARNING READ AND UNDERSTAND COMPLETELY USER MANUAL NO, MAN0289 FOR THESE DEVICES BEFORE INSTALLATION OR OPERATION

DATE: 11/31/20

ECD #	REV	REVISIONS	DATE	APP
18-037	01	BLOCK CHANGED/ABBREVIATIONS/TABLE MADE	5/7/18	J.T
18-073	02	UL MARKUPS	11/5/18	J,T
19-006	03	MDRE UL MARKUPS	01/11/19	J.T
19-008	04	STANDARD CONFIGURATION	01/23/19	J.T
19-011	05	TABLE 2 INTRODUCTION	02/06/19	J,T
19-020	06		03/01/19	J,T
20-010	07	PCA0368 R9 UPDATE FIBER DPTIC MOVE TO MAIN CIRCUIT BOARD	11/31/20	M.P

1. THE DORAN I.S. OUTPUT CABLE MUST BE CONNECTED TO A SUITABLE GROUND ELECTRODE PER THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70), THE CANADIAN ELECTRICAL CODE OR OTHER LOCAL INSTALLATION CODES, AS APPLICABLE. THE RESISTANCE OF THE GROUND PATH MUST BE LESS THAN 1

OPERATING AMBIENT TEMPERATURE RANGE: -10°C TO +40°C (EXCEPT 8CHG RANGE: -10°C TO +30°C) INTRINSICALLY SAFE WIRING SHALL BE IDENTIFIED AS SUCH WITH LABELS PLACED NO MORE THAN

THE OUTPUT CURRENT OF THESE INTRINSICALLY SAFE DORAN OUTPUTS IS LIMITED BY A RESISTOR

SELECTED INTRINSICALLY SAFE EQUIPMENT/SWITCHES (FOR USE WITH THESE INTRINSICALLY SAFE DORAN OUTPUTS) MUST BE THIRD PARTY LISTED AS INTRINSICALLY SAFE FOR THE APPLICATION (UNLESS DEEMED SIMPLE APPARATUS PER NOTE 11 ON SHEET 4, AND HAVE INTRINSICALLY SAFE

EQUIPMENT/SWITCHES TO THESE INTRINSICALLY SAFE DORAN OUTPUTS SHALL BE CALCULATED AND MUST BE INCLUDED IN THE SYSTEM CALCULATIONS AS SHOWN IN TABLE 1. CABLE CAPACITANCE. Ccable, PLUS INTRINSICALLY SAFE EQUIPMENT CAPACITANCE, CI MUST BE LESS THAN THE MARKED INDUCTANCE PER FOOT ARE NOT KNOWN, THE FOLLOWING VALUES SHALL BE USED: Ccable = 60 pF/ft..

INTRINSICALLY SAFE DEVICE (WHERE ALL PINS ARE NOT STATED AS COMBINED AND/OR DIFFERENT ENTITY PARAMETERS ASSIGNED), THEY MUST BE INSTALLED IN SEPARATE CABLES OR IN ONE CABLE HAVING SUITABLE INSULATION. REFER TO ARTICLE 504.30(B) OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) AND INSTRUMENT SOCIETY OF AMERICA RECOMMENDED PRACTICE ISA RP12.06 FOR

INTRINSICALLY SAFE CIRCUITS MUST BE WIRED AND SEPARATED IN ACCORDANCE WITH ARTICLE 504.20 OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) OR OTHER LOCAL CODES, AS APPLICABLE. THESE INTRINSICALLY SAFE DORAN OUTPUTS HAVE NOT BEEN EVALUATED FOR USE IN COMBINATION

10. FOR INSTALLATIONS IN WHICH BOTH THE CI AND LI OF THE INTRINSICALLY SAFE APPARATUS/SWITCHES EXCEEDS 1% OF THE Ca (OR Co) AND La (OR Lo) PARAMETERS OF THESE INTRINSICALLY SAFE DORAN APPLICABLE AND SHALL NOT BE EXCEEDED. THE REDUCED CAPACITANCE SHALL NOT BE GREATER THAN 1 µF FOR GROUPS C AND/OR D, AND 600 nF FOR GROUPS A AND B. THE VALUES OF Ca (OR Co) AND La (OR Lo) DETERMINED BY THIS METHOD SHALL NOT BE EXCEEDED BY THE SUM OF ALL OF CI PLUS CABLE CAPACITANCES AND THE SUM OF ALL OF THE LI PLUS CABLE INDUCTANCES IN THE CIRCUIT

THESE INTRINSICALLY SAFE DORAN OUTPUTS MAY ALSO BE CONNECTED TO SIMPLE APPARATUS AS DEFINED IN ARTICLE 504.2 AND INSTALLED AND TEMPERATURE CLASSIFIED IN ACCORDANCE WITH ARTICLE 504.10(D) OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70), OR OTHER LOCAL CODES, AS



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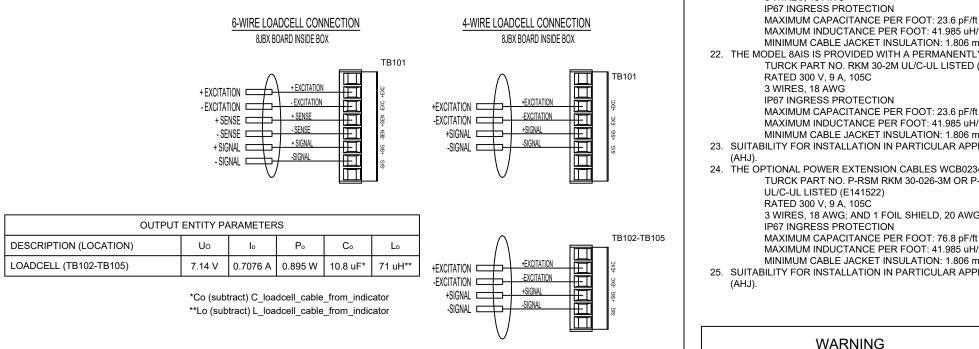
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DRAWN BY:	DRAWING NUMBER	SHEET NUMBER	REV
J.TORRES	900243	SHEET 4 OF 5	07

ECD #	REV	REVISIONS	DATE	APP
19-011	05	TABLE 2 INTRODUCTION	02/06/19	J.T
19-020	06		03/01/19	J.T
20-010	07	PCA0368 R9 UPDATE FIBER DPTIC MOVE TO MAIN CIRCUIT BOARD	11/31/20	M.P

NOTES FOR PAGE 1 OF CONTROL DRAWING No. 900243

NOTES:

- 1 SEE PAGE 1
- 2. SEE PAGE 1
- SEE PAGE 1 3.
- 4 CONNECT THE LOADCELL CABLE SHIELD WIRE TO THE THREADED STUD ADJACENT TO SEALING GLAND. TO ASSURE PROPER GROUNDING, TEST FOR CONTINUITY BETWEEN PLATFORM(LOAD CELL) AND SHIELD. THE PLATFORM SHOULD BE PROPERLY GROUNDED TO EARTH.
- THE DORAN I.S. OUTPUT CABLE MUST BE CONNECTED TO A SUITABLE GROUND ELECTRODE PER THE NATIONAL 5. ELECTRICAL CODE (ANSI/NFPA 70), THE CANADIAN ELECTRICAL CODE OR OTHER LOCAL INSTALLATION CODES, AS APPLICABLE. THE RESISTANCE OF THE GROUND PATH MUST BE LESS THAN 1 OHM.
- OPERATING AMBIENT TEMPERATURE RANGE: -10°C TO +40°C
- LOADCELL CABLE LENGTH: 75 FEET MAX FOR THE 4-WIRE LOADCELLS, AND 50 FEET MAX FOR THE 6-WIRE LOADCELLS. THESE MUST INCLUDE TOTAL LENGTH OF CABLE STARTING AT INDICATOR AND ENDING AT EACH LOADCELL (ALL COMBINED)
- 8JBX JUNCTION BOX IS TYPE 1, IP20 FOR DRY INDOOR LOCATIONS.
- 9 THE OUTPUT CURRENT OF THESE INTRINSICALLY SAFE DORAN OUTPUTS IS LIMITED BY A RESISTOR SUCH THAT THE OUTPUT VOLTAGE-CURRENT PLOT IS A STRAIGHT LINE DRAWN BETWEEN OPEN-CIRCUIT VOLTAGE AND SHORT-CIRCUIT CURRENT
- 10. SELECTED INTRINSICALLY SAFE EQUIPMENT/LOADCELLS (FOR USE WITH THESE INTRINSICALLY SAFE DORAN OUTPUTS) MUST BE THIRD PARTY LISTED AS INTRINSICALLY SAFE FOR THE APPLICATION (UNLESS DEEMED SIMPLE APPARATUS PER NOTE 1 ON SHEET 1), AND HAVE INTRINSICALLY SAFE ENTITY PARAMETERS CONFORMING WITH TABLE 1 ON SHEFT 1
- CAPACITANCE AND INDUCTANCE OF THE FIELD WIRING FROM THE INTRINSICALLY SAFE EQUIPMENT/LOADCELLS TO 11. THESE INTRINSICALLY SAFE DORAN OUTPUTS SHALL BE CALCULATED AND MUST BE INCLUDED IN THE SYSTEM CALCULATIONS AS SHOWN IN TABLE 1 ON SHEET 1. CABLE CAPACITANCE, Ccable, PLUS INTRINSICALLY SAFE EQUIPMENT CAPACITANCE, CI MUST BE LESS THAN MARKED CAPACITANCE, Ca (OR Co), SHOWN ON ANY I.S. DORAN OUTPUTS USED. THE SAME APPLIES FOR INDUCTANCE (Lcable, Li AND La OR Lo, RESPECTIVELY). WHERE THE CABLE CAPACITANCE AND INDUCTANCE PER FOOT ARE NOT KNOWN. THE FOLLOWING VALUES SHALL BE USED: Ccable = 60 pF/ft., Lcable = 0.2 μ H/ft.
- 12. WHERE MULTIPLE CIRCUITS EXTEND FROM THE SAME PIECE OF ASSOCIATED APPARATUS OR INTRINSICALLY SAFE DEVICE (WHERE ALL PINS ARE NOT STATED AS COMBINED AND/OR DIFFERENT ENTITY PARAMETERS ASSIGNED). THEY MUST BE INSTALLED IN SEPARATE CABLES OR IN ONE CABLE HAVING SUITABLE INSULATION. REFER TO ARTICLE 504.30(B) OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) AND INSTRUMENT SOCIETY OF AMERICA RECOMMENDED PRACTICE ISA RP12.06 FOR INSTALLING INTRINSICALLY SAFE EQUIPMENT.
- 13. INTRINSICALLY SAFE CIRCUITS MUST BE WIRED AND SEPARATED IN ACCORDANCE WITH ARTICLE 504.20 OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) OR OTHER LOCAL CODES, AS APPLICABLE.
- THESE INTRINSICALLY SAFE DORAN OUTPUTS HAVE NOT BEEN EVALUATED FOR USE IN COMBINATION WITH ANOTHER 14 DEVICE WITH ANY OUTPUTS.
- 15. FOR INSTALLATIONS IN WHICH BOTH THE CI AND LI OF THE INTRINSICALLY SAFE APPARATUS/LOADCELLS EXCEEDS 1% OF THE Ca (OR Co) AND La (OR Lo) PARAMETERS OF THESE INTRINSICALLY SAFE DORAN OUTPUTS (EXCLUDING THE CABLE), THEN 50% OF Ca (OR Co) AND La (OR Lo) PARAMETERS ARE APPLICABLE AND SHALL NOT BE EXCEEDED. THE REDUCED CAPACITANCE SHALL NOT BE GREATER THAN 1 uF FOR GROUPS C AND/OR D, AND 600 nF FOR GROUPS A AND B. THE VALUES OF Ca (OR Co) AND La (OR Lo) DETERMINED BY THIS METHOD SHALL NOT BE EXCEEDED BY THE SUM OF ALL OF CI PLUS CABLE CAPACITANCES AND THE SUM OF ALL OF THE LI PLUS CABLE INDUCTANCES IN THE CIRCUIT RESPECTIVELY.
- 16. 8JBX LOAD CELL I.S. WIRING BELOW
- 17. 8JBX OUTPUT ENTITY PARAMETERS BELOW



READ AND UNDERSTAND COMPLETELY USER MANUAL NO, MAN0289 FOR THESE DEVICES BEFORE INSTALLATION OR OPERATION

DATE: 11/31/20

NOTES FOR PAGE 2 OF CONTROL DRAWING No. 900243

8. NOTES 1-8 SEE PAGE 2

NOTES:

- THE ELECTRONICS LOCATED IN THE BARRIER CIRCUIT OF MODEL 8AIS FORMS AN INTRINSICALLY SAFE SYSTEM WHEN ONE 9. INDICATOR/REMOTE DISPLAY MODEL 8100IS/8200IS IS CONNECTED TO ITS INTRINSICALLY SAFE OUTPUT CABLE AS SHOWN ON SHEET 2. AND THE INDICATOR/REMOTE DISPLAY MODELS 8100IS/8200IS ARE SUITABLE FOR USE IN HAZARDOUS AREAS AS SHOWN ON THIS CONTROL DRAWING NO. 900243. NO OTHER DEVICES ARE SUITABLE FOR DIRECT CONNECTION TO THE INTRINSICALLY SAFE OUTPUT CABLE OF MODEL 8AIS, AND THE ONLY ADDITIONAL DEVICES/CONFIGURATIONS THAT MAY BE CONNECTED TO THE INDICATOR/REMOTE DISPLAY MODELS 8100IS/8200IS ARE SHOWN ON THIS CONTROL DRAWING NO. 900243
- 10. THE OUTPUT CURRENT OF THE MODEL 8AIS ASSOCIATED APPARATUS IS LIMITED BY A RESISTOR SUCH THAT THE OUTPUT-VOLTAGE PLOT IS A STRAIGHT LINE DRAWN BETWEEN OPEN-CIRCUIT VOLTAGE AND SHORT-CIRCUIT CURRENT
- 11. ASSOCIATED APPARATUS MODEL 8AIS MUST BE INSTALLED IN AN ENCLOSURE SUITABLE FOR THE APPLICATION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) FOR INSTALLATION IN THE UNITED STATES, THE CANADIAN ELECTRICAL CODE FOR INSTALLATIONS IN CANADA, OR OTHER LOCAL CODES, AS APPLICABLE.
- 12. THE ASSOCIATED APPARATUS MODEL 8AIS MUST BE CONNECTED TO A SUITABLE GROUND ELECTRODE PER THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70), THE CANADIAN ELECTRICAL CODE OR OTHER LOCAL INSTALLATION CODES, AS APPLICABLE. THE RESISTANCE OF THE GROUND PATH MUST BE LESS THAN 1 OHM.
- 13. INTRINSICALLY SAFE CIRCUITS MUST BE WIRED AND SEPARATED IN ACCORDANCE WITH ARTICLE 504.20 OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) OR OTHER LOCAL CODES, AS APPLICABLE.
- 14. THIS ASSOCIATED APPARATUS MODEL 8AIS HAS NOT BEEN EVALUATED FOR USE IN COMBINATION WITH ANOTHER ASSOCIATED APPARATUS
- 15. THE ELECTRONICS LOCATED IN THE MODEL 8BIS BATTERY PACK FORMS AN INTRINSICALLY SAFE SYSTEM WHEN ONE INDICATOR/REMOTE DISPLAY MODELS 8100IS/8200IS IS CONNECTED TO ITS INTRINSICALLY SAFE OUTPUT CABLE AS SHOWN ABOVE, AND THE INDICATOR/REMOTE DISPLAY MODELS 8100IS/8200IS ARE SUITABLE FOR USE IN HAZARDOUS AREAS AS SHOWN ON THIS CONTROL DRAWING NO. 900243. NO OTHER DEVICES ARE SUITABLE FOR DIRECT CONNECTION TO THE INTRINSICALLY SAFE OUTPUT CABLE OF MODEL 8BIS, AND THE ONLY ADDITIONAL DEVICES/CONFIGURATIONS THAT MAY BE CONNECTED TO THE INDICATOR/REMOTE DISPLAY MODELS 8100IS/8200IS ARE SHOWN ON THIS CONTROL DRAWING NO. 900243.
- 16. THE OUTPUT CURRENT OF THE MODEL 8BIS IS LIMITED BY A RESISTOR SUCH THAT THE OUTPUT VOLTAGE-CURRENT PLOT IS A STRAIGHT LINE DRAWN BETWEEN OPEN-CIRCUIT VOLTAGE AND SHORT-CIRCUIT CURRENT.
- 17. MODEL 8JBX MUST BE INSTALLED IN AN ENCLOSURE SUITABLE FOR THE APPLICATION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) FOR INSTALLATION IN THE UNITED STATES, THE CANADIAN ELECTRICAL CODE FOR INSTALLATIONS IN CANADA, OR OTHER LOCAL CODES, AS APPLICABLE.
- 18. INTRINSICALLY SAFE CIRCUITS MUST BE WIRED AND SEPARATED IN ACCORDANCE WITH ARTICLE 504.20 OF THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) OR OTHER LOCAL CODES. AS APPLICABLE. 19. THIS BATTERY PACK MODEL 8BIS HAS NOT BEEN EVALUATED FOR USE IN COMBINATION WITH ANOTHER POWER SOURCE OR
- ASSOCIATED APPARATUS. 20. THE INDICATOR/REMOTE DISPLAY MODEL 8100IS/8200IS IS PROVIDED WITH A PERMANENTLY CONNECTED CABLE HAVING THE
- FOLLOWING CHARACTERISTICS: TURCK PART NO. RSM 30-2M UL/C-UL LISTED (E141522) RATED 300 V, 9 A, 105C
 - 3 WIRES, 18 AWG
 - **IP67 INGRESS PROTECTION**
 - MAXIMUM CAPACITANCE PER FOOT: 23.6 pF/ft
 - MAXIMUM INDUCTANCE PER FOOT: 41.985 uH/ft
 - MINIMUM CABLE JACKET INSULATION: 1.806 mm
- 21. THE MODEL 8BIS IS PROVIDED WITH A PERMANENTLY CONNECTED CABLE HAVING THE FOLLOWING CHARACTERISTICS: TURCK PART NO. RKM 30-2M UL/C-UL LISTED (E141522)
 - RATED 300 V, 9 A, 105C
 - 3 WIRES, 18 AWG

 - MAXIMUM INDUCTANCE PER FOOT: 41.985 uH/ft
 - MINIMUM CABLE JACKET INSULATION: 1.806 mm
- 22. THE MODEL 8AIS IS PROVIDED WITH A PERMANENTLY CONNECTED CABLE HAVING THE FOLLOWING CHARACTERISTICS: TURCK PART NO. RKM 30-2M UL/C-UL LISTED (E141522)
 - MAXIMUM CAPACITANCE PER FOOT: 23.6 pF/ft
 - MAXIMUM INDUCTANCE PER FOOT: 41.985 uH/ft
 - MINIMUM CABLE JACKET INSULATION: 1.806 mm
- 23. SUITABILITY FOR INSTALLATION IN PARTICULAR APPLICATIONS IS AT THE DISCRETION OF THE AUTHORITY HAVING JURISDICTION
- 24. THE OPTIONAL POWER EXTENSION CABLES WCB0234 AND WCB0235 MAY ONLY BE THE FOLLOWING TYPES IF USED:
 - TURCK PART NO. P-RSM RKM 30-026-3M OR P-RSM RKM 30-026-6M
 - 3 WIRES, 18 AWG; AND 1 FOIL SHIELD, 20 AWG

 - MAXIMUM CAPACITANCE PER FOOT: 76.8 pF/ft
 - MAXIMUM INDUCTANCE PER FOOT: 41.985 uH/ft
 - MINIMUM CABLE JACKET INSULATION: 1.806 mm
- 25. SUITABILITY FOR INSTALLATION IN PARTICULAR APPLICATIONS IS AT THE DISCRETION OF THE AUTHORITY HAVING JURISDICTION

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18-037	01	BLOCK CHANGED/ABBREVIATIONS/NOTES	5/7/18	J,T
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SYSTEM CONTROL DRAWING

DRAWN BY J TORRES

DRAWING NUMBER 900243

SHEET NUMBER SHEET 5 OF 5

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