

METTLER TOLEDO

30116036

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SUPERSEDES: NONE

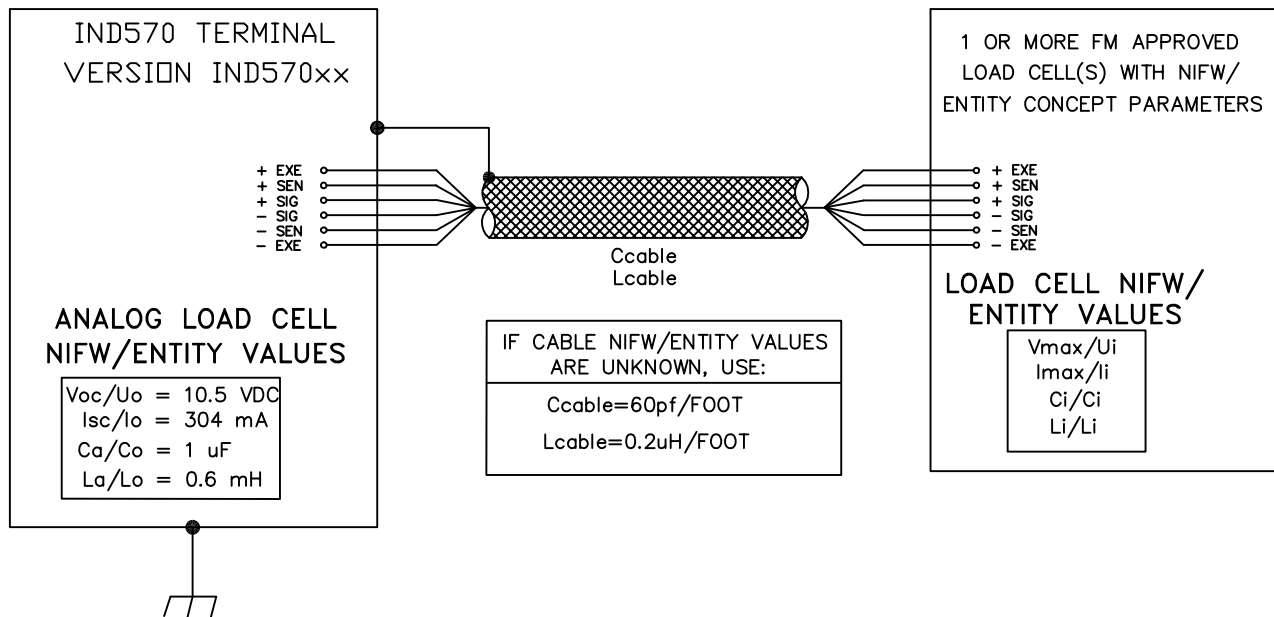
TITLE: IND570XX,FM,CONTROL_DRAWING

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RECORD OF CHANGES

CHG.	DESCRIPTION	BY	APVD.	ER. NO.	DATE
0	IND570xx TERMINAL	JDM	WM	72929	2/24/16

DIVISION 2 OR ZONE 2/22 HAZARDOUS AREA



NOTES:

- EQUIPMENT ALLOWED TO BE INSTALLED IN DIVISION 2 OR ZONE 2/22 AREAS. EQUIPMENT CAN ALSO BE INSTALLED INTO SAFE AREA AS ASSOCIATED APPARATUS FOR THE ANALOG LOAD CELL INTERFACE.
- THE RESISTANCE BETWEEN ALL SAFETY GROUND CONNECTIONS AND THE SYSTEM GROUNDING ELECTRODE MUST NOT EXCEED 1 OHM.
- A FACTORY MUTUAL APPROVED DUST TIGHT ENCLOSURE IS REQUIRED FOR INSTALLATION OF THE PANEL-MOUNT ENCLOSURE INSIDE THE DIVISION 2 OR ZONE 2/22 AREA.
- CIRCUITS NOT SHOWN ON THIS DRAWING ARE CONSIDERED INCENDIVE AND MUST BE WIRED PER LOCAL ELECTRICAL SAFETY CODE.
- INSTALLATION MUST BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE NFPA 70, ARTICLES 501, 502, 503, 505 AND 506 AND ANSI/ISA RP12.12.01 TO MEET US REQUIREMENTS AND C22.1 SECTION 18 AND APPENDIX F TO MEET CANADIAN REQUIREMENTS.
- NONINCENDIVE FIELD WIRING (NIFW) AND INTRINSICALLY SAFE [ic] CONNECTION RULES:
 $V_{max(min)} \geq V_{oc}$, $I_{max(min)} \geq I_{sc}$, $C_a \geq \Sigma C_i + C_{cable}$, $L_a \geq \Sigma L_i + L_{cable}$.
 $U_i(min) \geq U_o$, $I_i(min) \geq I_o$, $C_o \geq \Sigma C_i + C_{cable}$, $L_o \geq \Sigma L_i + L_{cable}$.
- A SIMPLE APPARATUS JUNCTION BOX IS REQUIRED IF MORE THAN 1 LOAD CELL IS CONNECTED OR IF A LONGER LOAD CELL CABLE IS REQUIRED.
- FOUR WIRE LOAD CELLS MUST SHORT +EXE TO +SEN AND -EXE TO -SEN AT THE LOAD CELL.
- THIS DRAWING SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM FM.
- MAXIMUM NONHAZARDOUS VOLTAGE FOR ALL COMPONENTS IS 250V AC/DC.
- REFER TO ADDITIONAL NOTES ON PAGES 2 AND 3 OF THIS DRAWING.
- SPECIAL CONDITIONS OF USE – REFER TO IND570XX INSTALLATION MANUAL 30205321.

NOTICE

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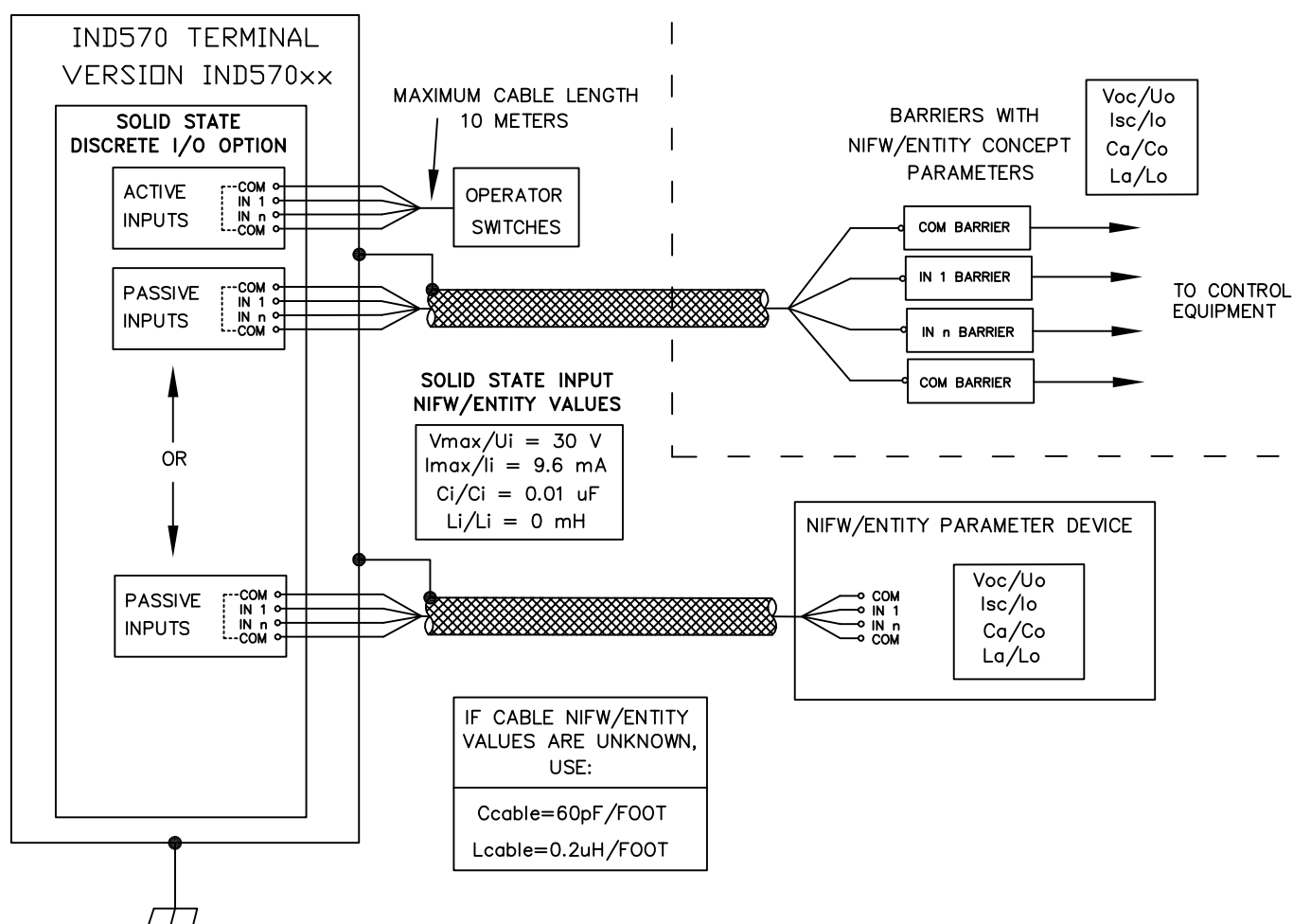
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DIVISION 2 OR ZONE 2/22

HAZARDOUS AREA

SAFE AREA



NOTES:

- THE DRY-CONTACT RELAY DISCRETE I/O OPTION 30113540 AND 30113542 CANNOT BE USED IN A DIVISION 2 OR ZONE 2/22 ENVIRONMENT.
- NONINCENDIVE FIELD WIRING (NIFW) AND INTRINSICALLY SAFE [ic] CONNECTION RULES:
 $V_{max(min)} \geq V_{oc}$, $C_a \geq \sum C_i + C_{cable}$, $L_a \geq \sum L_i + L_{cable}$
 I_{sc} is allowed to be greater than I_{max} .
 $U_i(min) \geq U_o$, $C_o \geq \sum C_i + C_{cable}$, $L_o \geq \sum L_i + L_{cable}$
 I_o is allowed to be greater than I_i .
- THE TWO COM CONNECTIONS FOR INPUTS ARE CONNECTED TOGETHER INTERNALLY IN THE TERMINAL.
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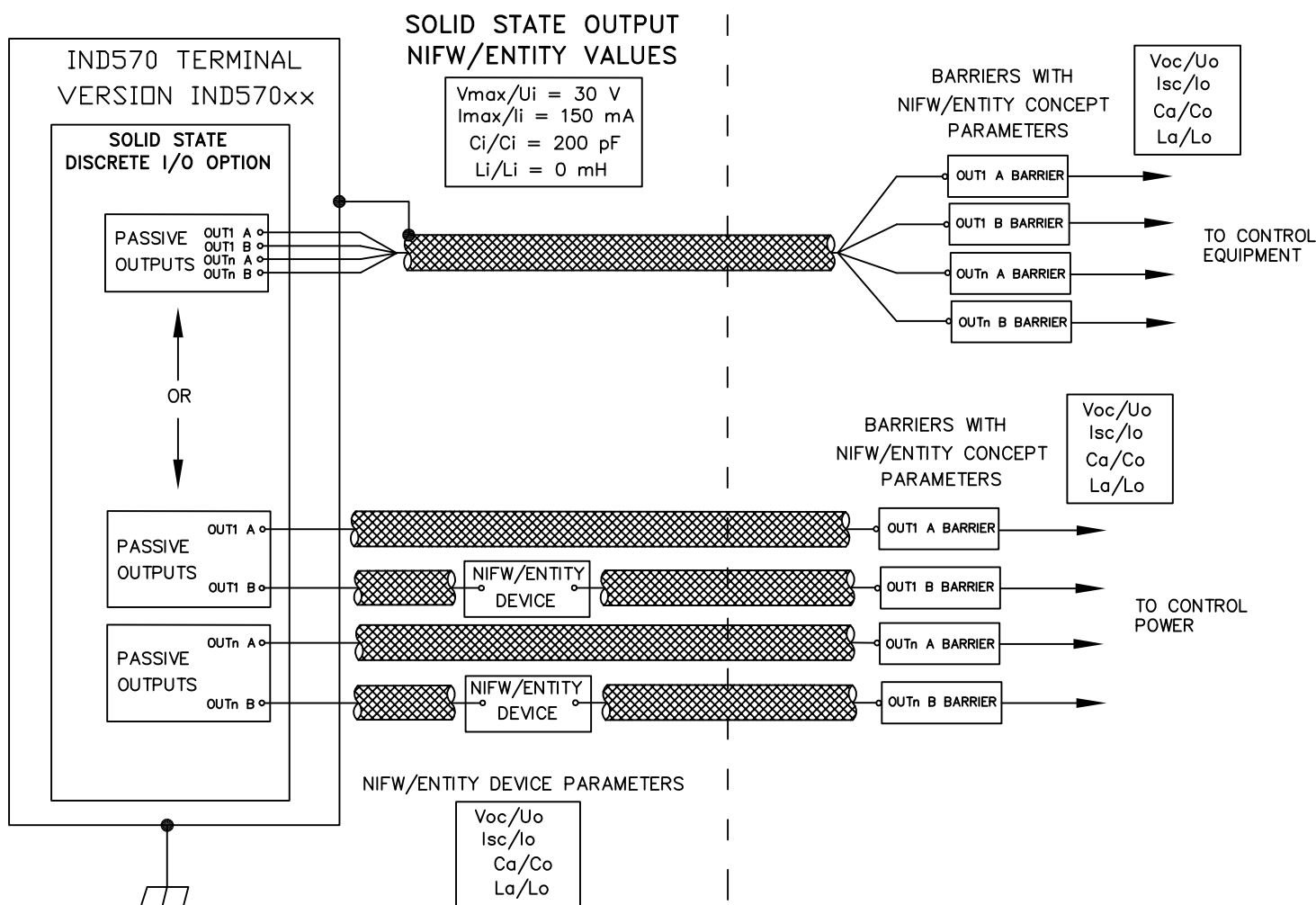
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