

# METTLER TOLEDO

30116037

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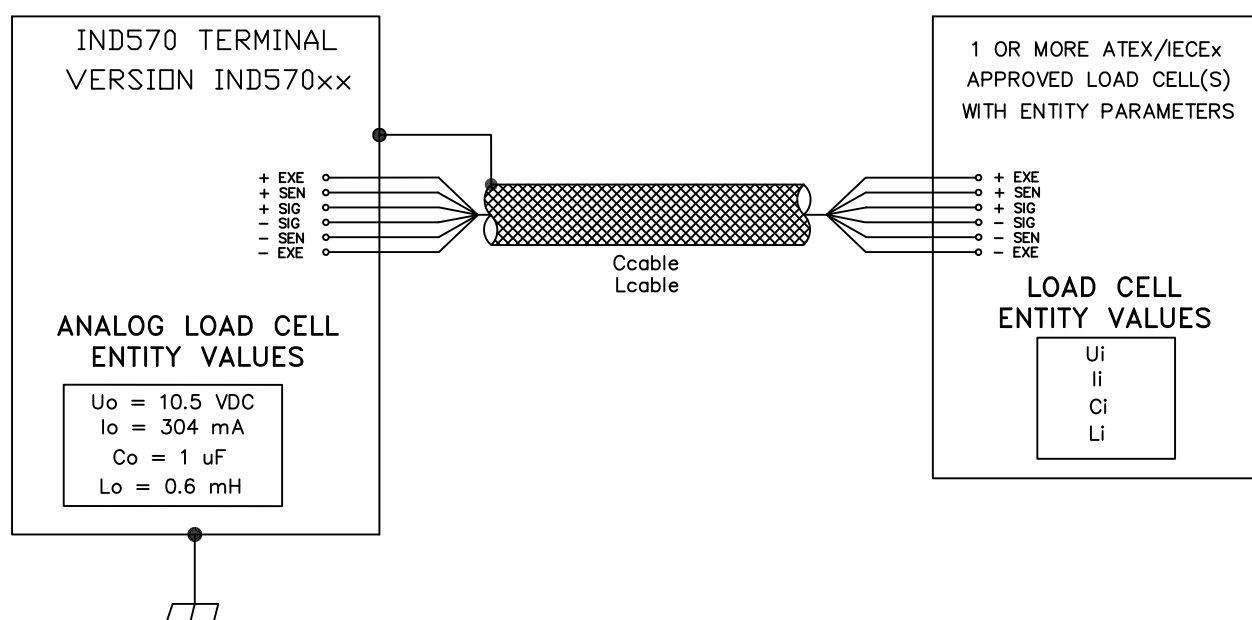
TITLE: IND570XX,ATEX,IECEx,INSTALLATION\_DRAWING

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## RECORD OF CHANGES

CHG.	DESCRIPTION	BY	APVD.	ER. NO.	DATE
0	IND570xx TERMINAL	JDM	WM	73002	7/12/16

## ZONE 2/22 HAZARDOUS AREA



## NOTES:

- EQUIPMENT ALLOWED TO BE INSTALLED IN 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.
- THE PANEL-MOUNT VERSION MUST BE MOUNTED ON A FLAT SURFACE OF ENCLOSURE OF AT LEAST IP65 AND ATEX/IECEx CERTIFIED.
- CIRCUITS NOT SHOWN ON THIS DRAWING ARE CONSIDERED INCENDIVE AND MUST BE WIRED PER LOCAL ELECTRICAL SAFETY CODE.
- INSTALLATION MUST BE IN ACCORDANCE WITH EN60079-14 TO MEET ATEX REQUIREMENTS AND IEC60079-14 TO MEET IECEx REQUIREMENTS.
- INTRINSICALLY SAFE [ic] CONNECTION RULES:  

$$U_i(\min) \geq U_o, I_i(\min) \geq I_o, C_o \geq \Sigma C_i + C_{\text{cable}}, L_o \geq \Sigma L_i + L_{\text{cable}}.$$
- A SIMPLE APPARATUS OR ATEX/IECEx CERTIFIED 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 ( $U_m$ ) 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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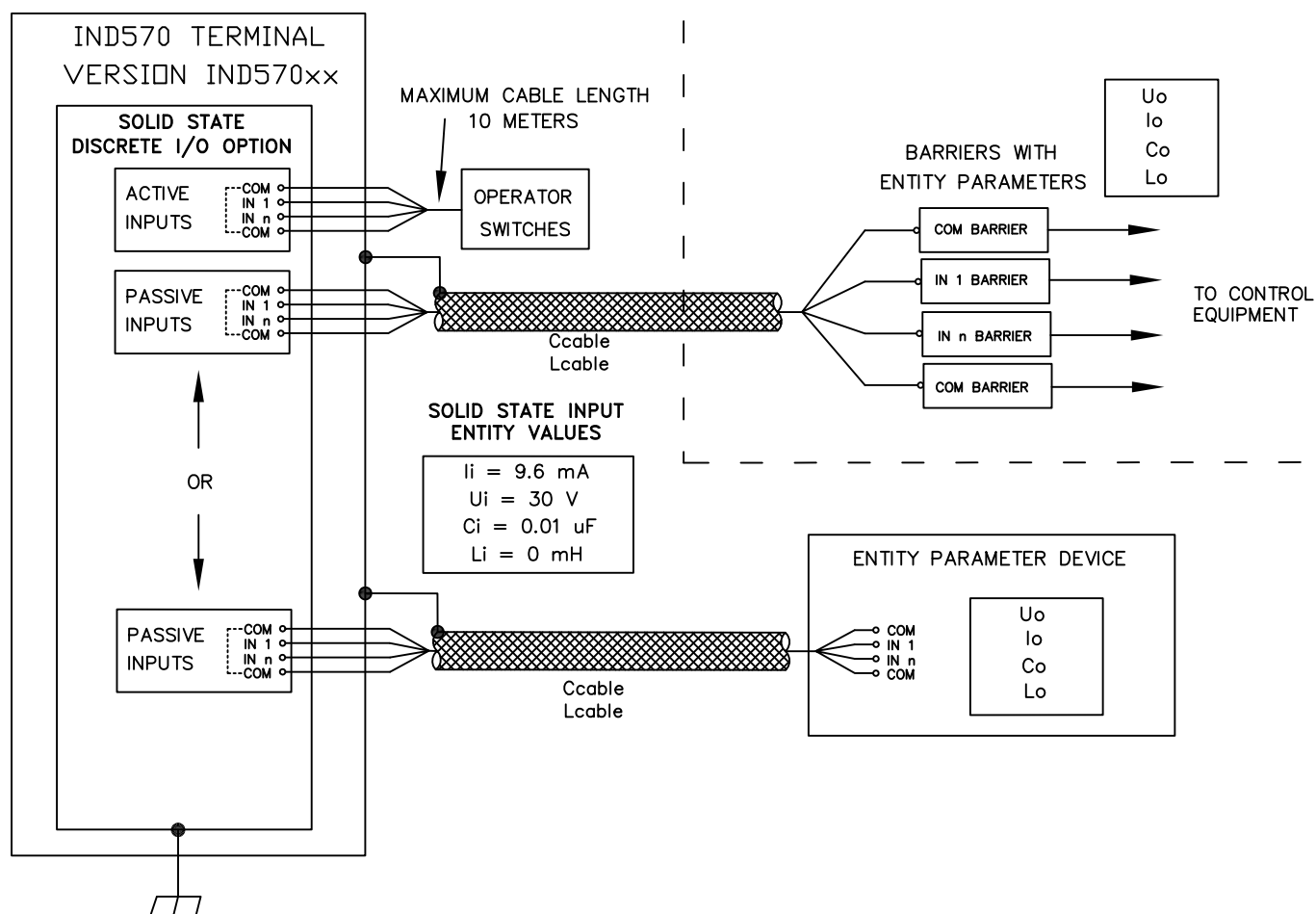
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## RECORD OF CHANGES

CHG.	DESCRIPTION	BY	APVD.	ER. NO.	DATE
0	IND570xx TERMINAL	JDM	WM	73002	7/12/16

ZONE 2/22  
HAZARDOUS AREA

SAFE AREA



## NOTES:

- THE DRY-CONTACT RELAY DISCRETE I/O OPTION 30113540 AND 30113542 CANNOT BE USED IN A ZONE 2/22 ENVIRONMENT.
- INTRINSICALLY SAFE [i] CONNECTION RULES:  

$$U_i(\min) \geq U_o, Co \geq \sum C_i + C_{cable}, Lo \geq \sum L_i + L_{cable}$$

$$I_o \text{ is allowed to be greater than } I_i.$$
- THE TWO COM CONNECTIONS FOR INPUTS ARE CONNECTED TOGETHER INTERNALLY IN THE TERMINAL.
- REFER TO ADDITIONAL NOTES ON PAGES 1 AND 3 OF THIS DRAWING.

## NOTICE

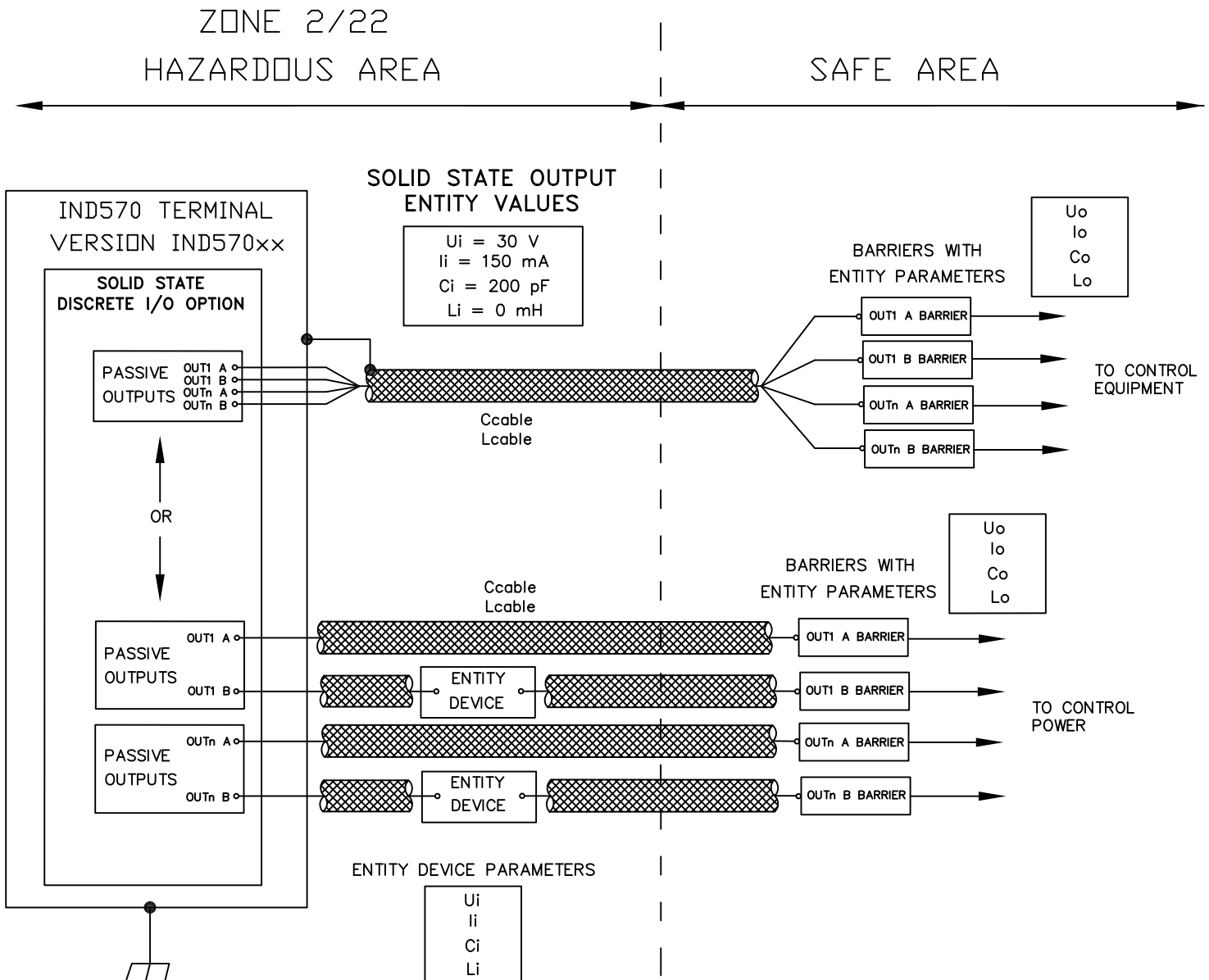
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CHG.	DESCRIPTION	BY	APVD.	ER. NO.	DATE
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1. THE DRY-CONTACT RELAY DISCRETE I/O OPTION 30113540 AND 30113542 CANNOT BE USED IN A ZONE 2/22 ENVIRONMENT.

2. NONINCENDIVE FIELD WIRING (NIFW) AND INTRINSICALLY SAFE [ic] CONNECTION RULES:  
$$U_i(\min) \geq U_o, I_i \geq I_o, C_o \geq \Sigma C_i + C_{\text{cable}}, L_o \geq \Sigma L_i + L_{\text{cable}}$$
$$I_o \text{ is allowed to be greater than } I_i.$$

3. REFER TO ADDITIONAL NOTES ON PAGES 1 AND 2 OF THIS DRAWING.

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