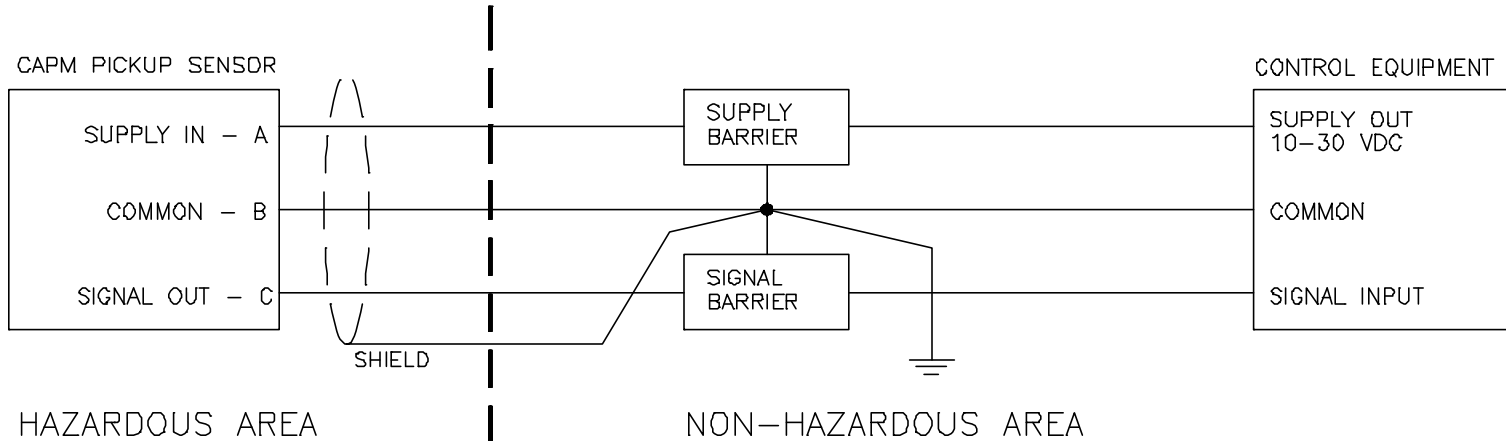



CAPM INSTALLATION IN HAZARDOUS AREA MODELS 2o, 2i, 3o, 3i


REV	DESCRIPTION	DATE	APPR. BY
A	CONCEPT DRAWING	03-26-96	J.S.
B	ADDED o & i VERSIONS	02-20-97	J.S.
C	ADDED 2nd SET OF ENTITY PARAMETERS	07-10-98	J.S.



NOTES ON CAPM SENSORS

- COMMON (B) IS CONNECTED TO SENSOR CASE, BUT CAN BE DISCONNECTED.
- SUPPLY: 10-30 VDC
20 mA @ 15 VOLT, MAX 35 mA
- ENTITY PARAMETERS

FOR CAPM'S BEARING THE  MARK
 $C_i = 0$, $L_i = 1.5$ mH
 $V_{max} = 30$ VDC, $I_{max} = 90$ mA

FOR CAPM'S WITHOUT THE  MARK
 $C_i = 0$, $L_i = 1.5$ mH
 $V_{max} = 30$ VDC, $I_{max} = 110$ mA


NOTES ON BARRIERS

- MUST BE INSTALLED IN ACCORDANCE WITH GUIDELINES PROVIDED BY THE MANUFACTURER, AND SUITABLE FOR FOR CLASS 1, GROUPS A, B, C AND D HAZARDOUS LOCATIONS.
- CABLE CAPACITANCE PLUS INTRINSICALLY SAFE EQUIPMENT CAPACITANCE MUST BE LESS THAN THE MARKED CAPACITANCE (C_a) SHOWN ON ANY BARRIER USED. THE SAME APPLIES FOR INDUCTANCE. TYPICAL CABLE CAPACITANCE IS 60pF/ft, AND TYPICAL CABLE INDUCTANCE IS 0.20μH/ft. (FROM UL913)
- SELECTED BARRIERS MUST MEET THE FOLLOWING CRITERIA:
 $V_{oc} \leq V_{max}$
 $I_{sc} \leq I_{max}$
 $C_a \geq C_i + C_{cable}$
 $L_a \geq L_i + L_{cable}$
 THE SUM OF BOTH CHANNELS ON DUAL CHANNEL BARRIER AND THE SUM OF EACH CHANNEL ON SINGLE CHANNEL BARRIERS MUST NOT EXCEED I_{max} .
 ALL BARRIERS MUST HAVE SAME POLARITY.
- CAPM MUST BE CONNECTED TO AN EARTH GROUND TERMINAL OF LESS THAN 1Ω.

NOTES ON CONTROL EQUIPMENT

- MAINS POWER MUST NOT EXCEED 250 VOLTS RESPECT TO EARTH.

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DATE: 03-26-96	CHECKED BY: G.S.
PAGE: 1 OF 1	SCALE: NONE