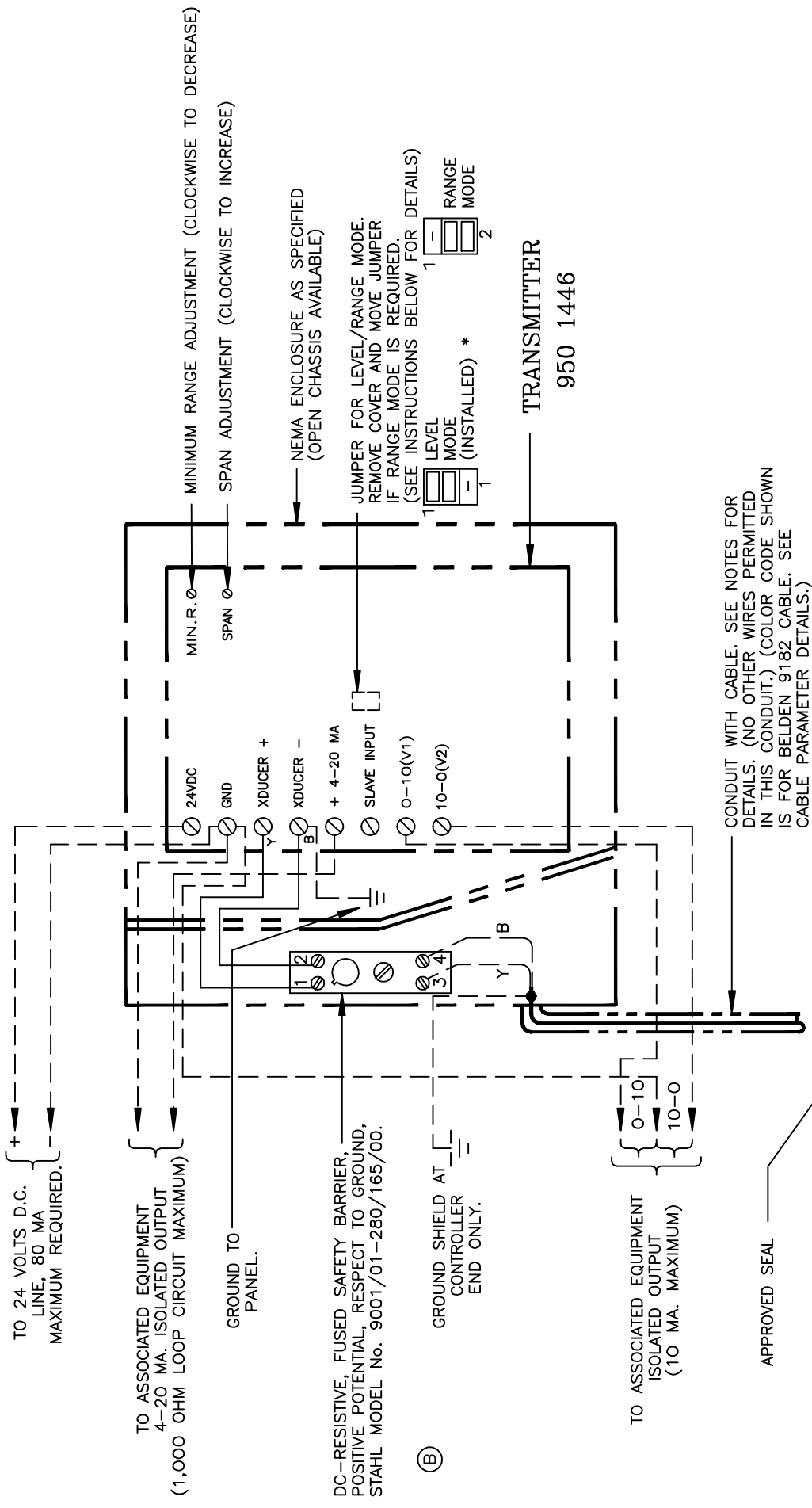


HAZARDOUS WIRING

24 VOLT D.C. APPLICATION



NON-HAZARDOUS LOCATION
HAZARDOUS LOCATION
CLASS I, DIV. 1, GROUP C & D
CLASS II, DIV. 1, GROUP E, F & G
CLASS III, DIV. 1

NOTES:

- CABLE PARAMETERS:
A. USE CONDUIT WITH CABLE INSIDE.
B. NO OTHER WIRES TO BE IN CONDUIT.
C. UP TO 1000 FEET- #22 AWG OR GREATER, TWISTED SHIELDED CABLE, CAPACITY LESS THAN 60 PICOFARAD PER FOOT, INDUCTANCE LESS THAN .2 MICROHENRIES PER FOOT.
D. UP TO 2500 FEET- TWIN AXIAL BELDEN 9182 OR EQUAL. (8.8 PICO FARADS PER FOOT)

CALIBRATION INSTRUCTIONS:

- POSITION THE MAGNET AT THE UPPER LIMIT OF THE ANALOG SPAN REQUIRED (POSITION A), WHILE READING OUTPUT V1 (i.e. 0-10 TO GROUND); ADJUST THE "MIN.R." ADJUSTMENT SCREW TO READ 10.00 VOLTS.
- CHANGE POSITION OF THE MAGNET TO THE LOWER LIMIT OF THE ANALOG SPAN (POSITION B), WHILE STILL READING V1, TURN THE "SPAN" ADJUSTMENT SCREW TO READ 0.00 VOLTS.
- IF THE 4. TO 20 MILLIAMPERE OUTPUT IS REQUIRED, DETERMINE WHICH MODE OF OPERATION IS REQUIRED AND SELECT THE REQUIRED POSITION OF THE JUMPER. RANGE MODE- CURRENT INCREASES ON FALLING LEVEL THE 0 TO 10 VOLT OR 10 TO 0 VOLT OUTPUTS, ARE ALWAYS PRESENT.
* LEVEL MODE- JUMPER ACROSS THE UPPER TWO PINS- POSITION 1.
RANGE MODE- JUMPER ACROSS THE LOWER TWO PINS- POSITION 2.
- THE 950 TRANSMITTER IS NORMALLY SHIPPED WITH THE JUMPER IN LEVEL MODE. THE COVER MUST BE REMOVED BY FIRST REMOVING 4 STAND-OFF SCREWS AND COVER BEFORE CHANGING THE MODE JUMPER *.

GENERAL INFORMATION

PRIOR TO INSTALLATION, POWER UP THE SYSTEM TO VERIFY OPERATION AND TO FAMILIARIZE YOURSELF WITH THE UNIT.

(A) SEE DRAWING E-0198300-B, WHEN UL APPROVAL IS REQUIRED ON TRANSDUCER UNIT.

THE TRANSDUCER SHOULD BE HANDLED WITH CARE DURING STORAGE AND INSTALLATION.

THIRD ANGLE PROJECTION	
SURFACE FINISH	
UNLESS OTHERWISE SPECIFIED	
TOLERANCE ALLOWANCE	
UNLESS OTHERWISE SPECIFIED:	
0.005 ON 3 PLACE DECIMALS	
+/- 0.0005 ON 4 PLACE DECIMALS	
+/- .30 MIN. ON ALL ANGLES	

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AMETEK
Automation & Process Technologies

Clawson, MI 48017 U.S.A.

DR. R.G.
DATE 3/15/91
APP.

DATE
SCALE
NONE

TITLE WIRING DIAGRAM FOR
TYPE 950 4-20 MA. &
(0-10/10-0) OUTPUTS
24 VOLT D.C. ASSEMBLY
WITH SAFETY BARRIER.

DRAWING NO.
E0209400

REV. | SIZE
C | C

REV.	DESCRIPTION	DATE	BY
A	WAS VCAD DRAWING AND UL NOTE ADDED	8/31/94	WAK
B	UPDATED TO NEW SAFETY BARRIER	5/12/97	WAK
C	UPDATED LOGO IN TITLE BLOCK	10/22/08	MJD