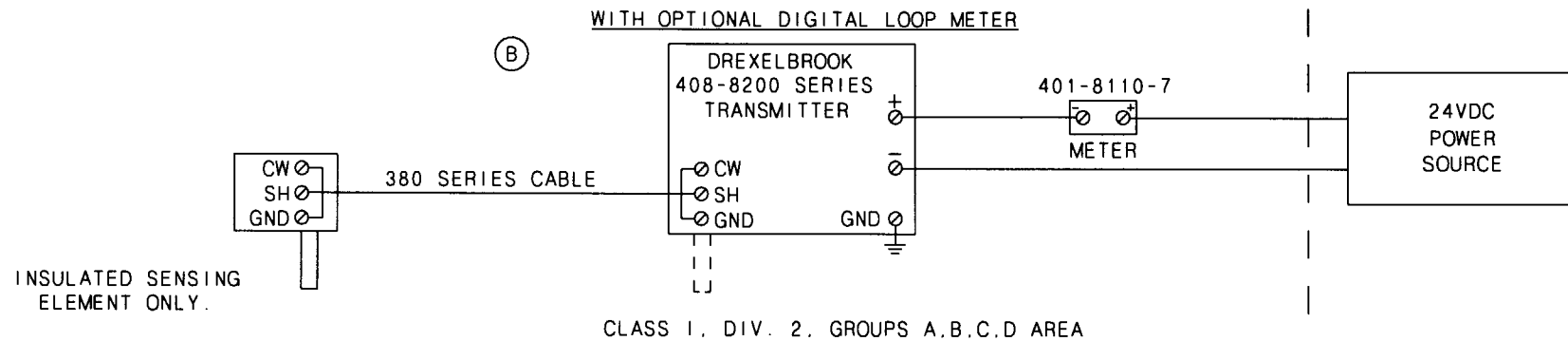
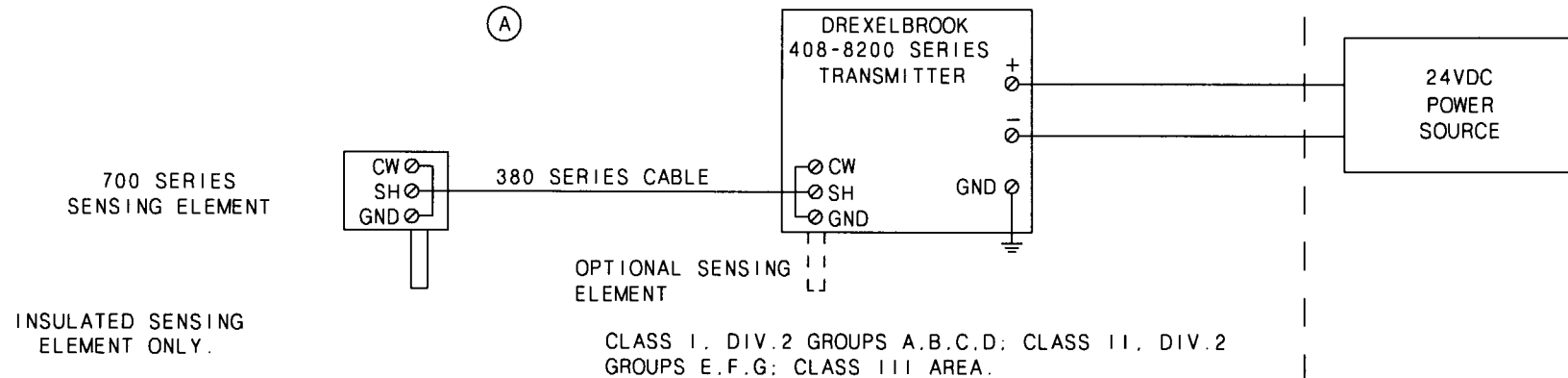


DIV. 2 LOOP, NO BARRIERS



NOTES FOR ALL SHEETS:

WARNING: SUBSTITUTION OF COMPONENTS
MAY IMPAIR SUITABILITY FOR
USE IN A HAZARDOUS
LOCATION.

AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS
PEUT RENDRE CE MATERIEL
INACCEPTABLE POUR LES
EMPLACEMENTS DANGEREUX.

MODEL NUMBERS OF CERTIFIED
TRANSMITTERS SHOWN ON
PAGES 1 TO 4:

408-82ab-Cde
a = PHASING 0.3
b = TIME DELAY 0.2
C = CSA APPROVED
d = OPERATING FREQUENCY 0.1
e = HOUSING 1.4.6.8.9.C.D
(FOR e = 1, MUST BE IN CSA
CERTIFIED HOUSING.)

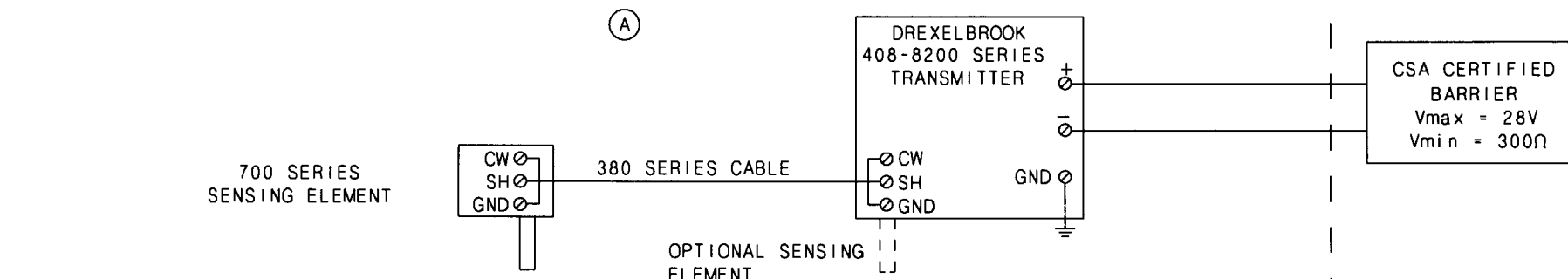
MODEL NUMBERS OF CERTIFIED
METERS SHOWN ON PAGES 1 TO 3:

401-8110-007 (CLASS 1 ONLY).
370-3000 SERIES IN CSA
CERTIFIED HOUSING.

SAFE AREA

CERTIFIED by _____					COPYRIGHT 1995 DREXELBROOK ENG CO.	 DREXELBROOK Engineering Company 205 KEITH VALLEY RD. HORSHAM, PA 19044-9986 215-674-1234 FAX 215-674-2731	CSA CONTROL DRAWING FOR 408-8200 SERIES TRANSMITTERS 420-0004-002-CD	SHT. 1 OF 4 ISS 2
PO # _____	2	3-95-204	JHR	9/19/95	SCALE NONE UNLESS OTHERWISE STATED ALL DIMENSIONS IN INCHES (MM)			
ENG _____	1	1-95-203	CRANCH	3-2-95	DR. J.R.S.			
USER _____	A	6-9-94 RP	EJC	6-30-94	CK. DDL			
DE # _____	ISS	EDO/DSR NO	APP'D	DATE	CK.			

LIMITED POWER

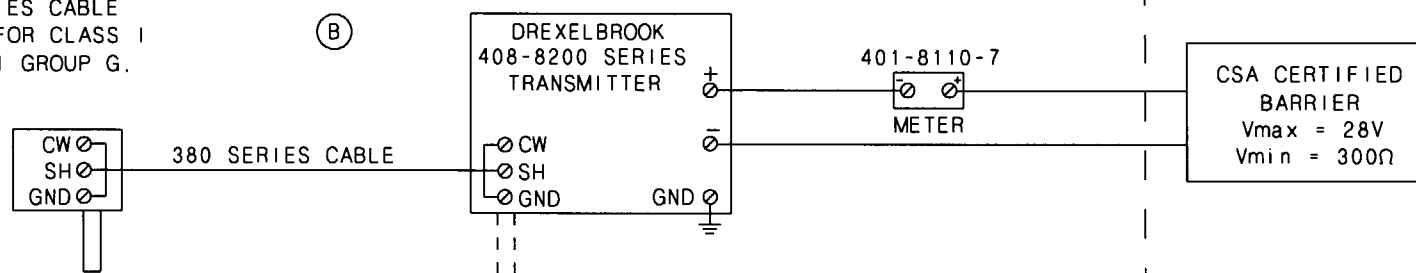


--INSULATED PROBES AND 380 SERIES CABLE ARE INTRINSICALLY SAFE FOR CLASS I GROUPS A,B,C,D; CLASS II GROUPS E,F,G. AND CLASS III.

CLASS I, DIV.1 GROUPS A,B,C,D; CLASS II, DIV.1 GROUPS E,F,G; CLASS III AREA.

--BARE PROBES AND 380 SERIES CABLE ARE INTRINSICALLY SAFE FOR CLASS I GROUPS A,B,C,D; CLASS II GROUP G. AND CLASS III.

WITH OPTIONAL DIGITAL LOOP METER



CLASS I, DIV. 2, GROUPS A,B,C,D AREA

FOR CLASS II INSTALLATIONS, WIRING MUST ENTER TRANSMITTER HOUSING THROUGH CERTIFIED DUST TIGHT CABLE FITTINGS.

MAX VOLTAGE
TRANSMITTER 40V
DIGITAL LOOP METER 40V

SAFE AREA

CERTIFIED	by _____			COPYRIGHT 1995	 DREXELBROOK Engineering Company 205 KEITH VALLEY RD HORSHAM, PA 19044-9986 215-674-1234 FAX 215-674-2731	CSA CONTROL DRAWING FOR 408-8200 SERIES TRANSMITTERS	
PO # _____				DREXELBROOK ENG CO.			
ENG _____	2	3-95-204	TAP 4/19/95	SCALE NONE			
USER _____	1	1-95-203	CRANCH 3-2-95	UNLESS OTHERWISE STATED ALL DIMENSIONS IN INCHES (MM)			
_____	A	6-9-94 RP	EJC 6-30-94	DR. J. R. S.			
DE # _____	ISS	EDO/DSR NO	APP'D	DATE	CK. <i>WKL</i>		

420-0004-002-CD

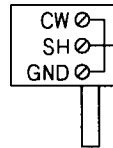
SHT. 2 OF 4
OF 4 2

440-115-184 (2)

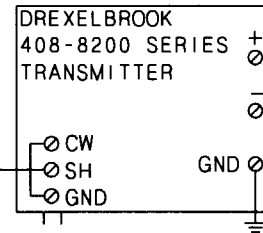
NO. 420-0004-002-CD

SHT. 2 OF 4

SINGLE BARRIER, GROUNDING RETURN

700 SERIES
SENSING ELEMENT

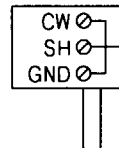
380 SERIES CABLE

OPTIONAL SENSING
ELEMENT

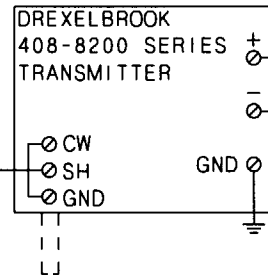
CLASS I, DIV. 1 GROUPS A,B,C,D;
CLASS II, DIV. 1 GROUPS E,F,G;
CLASS III AREA.

--INSULATED PROBES AND 380 SERIES
CABLE ARE INTRINSICALLY SAFE FOR
CLASS I GROUPS A,B,C,D; CLASS II
GROUPS E,F,G, AND CLASS III.

--BARE PROBES AND 380 SERIES CABLE
ARE INTRINSICALLY SAFE FOR CLASS I
GROUPS A,B,C,D; CLASS II GROUP G,
AND CLASS III.



380 SERIES CABLE

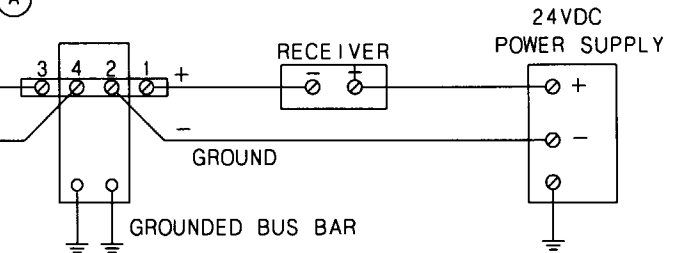


CLASS I, DIV. 1, GROUPS A,B,C,D AREA.

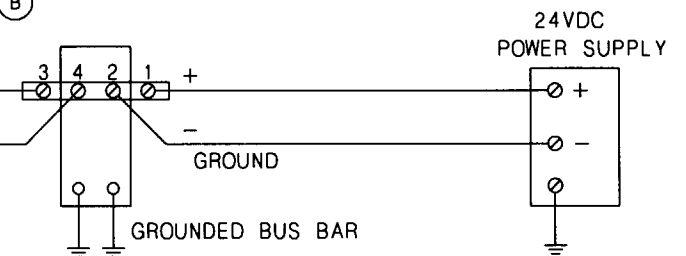
WITH OPTIONAL DIGITAL LOOP METER

401-8110-7
METER

(A)



(B)



EACH GROUND LEAD SHOWN MUST BE 1 OHM OR
LESS TO EARTH GROUND.

--LOOPS MUST BE CONNECTED ACCORDING TO THE
BARRIER MANUFACTURER'S INSTRUCTIONS.

--BARRIER MUST BE CSA CERTIFIED TYPE RATED 28V MAX.
300 OHMS MIN.

NOTE: FOR CLASS II GROUP E INSTALLATIONS, WIRING MUST ENTER TRANSMITTER
HOUSING THROUGH DUST TIGHT CABLE FITTINGS OR THREADED CONDUIT PER CEC
PART 1.

SAFE AREA

CERTIFIED	by					COPYRIGHT 1995
PO #						DREXELBROOK ENG CO.
ENG		2	3-95-204	JAP	4/19/95	SCALE NONE
USER		1	1-95-203	CRANCH	3-2-95	UNLESS OTHERWISE STATED ALL DIMENSIONS IN INCHES (MM)
		A	6-9-94 RP	EJC	6-30-94	DR. J. R. S.
DE #		ISS	EDO/DSR NO.	APP'D	DATE	CK. <i>[Signature]</i>



DREXELBROOK
Engineering Company

205 KEITH VALLEY RD
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CSA CONTROL DRAWING FOR
408-8200 SERIES
TRANSMITTERS

420-0004-002-CD

SHT. 3 OF 4
OF 4

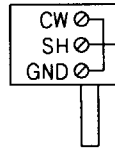
440-115-184 (2)

NO. 420-0004-002-CD

SHT 3 OF 4

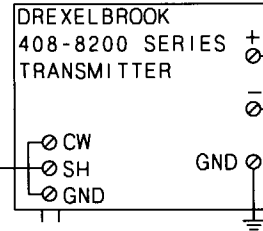
UNGROUNDING LOOP. HIGH IMPEDANCE
1-5 VOLT RECEIVER

700 SERIES
SENSING ELEMENT



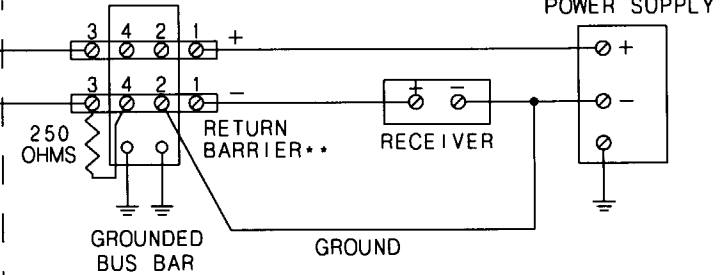
380 SERIES CABLE

OPTIONAL SENSING
ELEMENT



GND

SUPPLY
BARRIER*



--INSULATED PROBES AND 380 SERIES
CABLE ARE INTRINSICALLY SAFE FOR
CLASS I GROUPS A,B,C,D; CLASS II
GROUPS E,F,G. AND CLASS III.

--BARE PROBES AND 380 SERIES CABLE
ARE INTRINSICALLY SAFE FOR CLASS I
GROUPS A,B,C,D; CLASS II GROUP G.
AND CLASS III.

NOTE: FOR CLASS II GROUP E INSTALLATIONS, WIRING MUST ENTER TRANSMITTER
HOUSING THROUGH DUST TIGHT CABLE FITTINGS OR THREADED CONDUIT PER CEC
PART 1.

--TRANSMITTERS INTRINSICALLY SAFE
FOR CLASS I GROUPS A,B,C,D.
CLASS II GROUPS E,F,G. CLASS III.

EACH GROUND LEAD SHOWN MUST BE 1 OHM OR
LESS TO EARTH GROUND.

--LOOPS MUST BE CONNECTED ACCORDING TO THE
BARRIER MANUFACTURER'S INSTRUCTIONS.

--BARRIERS MUST BE CSA CERTIFIED TYPE.

* SUPPLY BARRIER RATED 28V MAX. 300 OHMS MIN.

**RETURN BARRIER MUST BE A "DIODE RETURN CURRENT
LIMITING" TYPE.

DIVISION 1 AREA

SAFE AREA

CERTIFIED

by

PO #

ENG

USER

DE #

2

3-95-204

THP

4/19/95

1

1-95-203

CRANCH

3-2-95

A

6-9-94 RP

EJC

6-30-94

ISS

EDO/DSR NO.

APP'D

DATE

COPYRIGHT 1995

DREXELBROOK ENG CO.

SCALE NONE

UNLESS OTHERWISE STATED
ALL DIMENSIONS IN INCHES (MM)

DR. J. R. S.

CK.

WDL



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CSA CONTROL DRAWING FOR
408-8200 SERIES
TRANSMITTERS

420-0004-002-CD

SHT. 4 OF 4
ISS 2

440-115-184 (2)

NO. 420-0004-002-CD

SHT. 4 OF 4