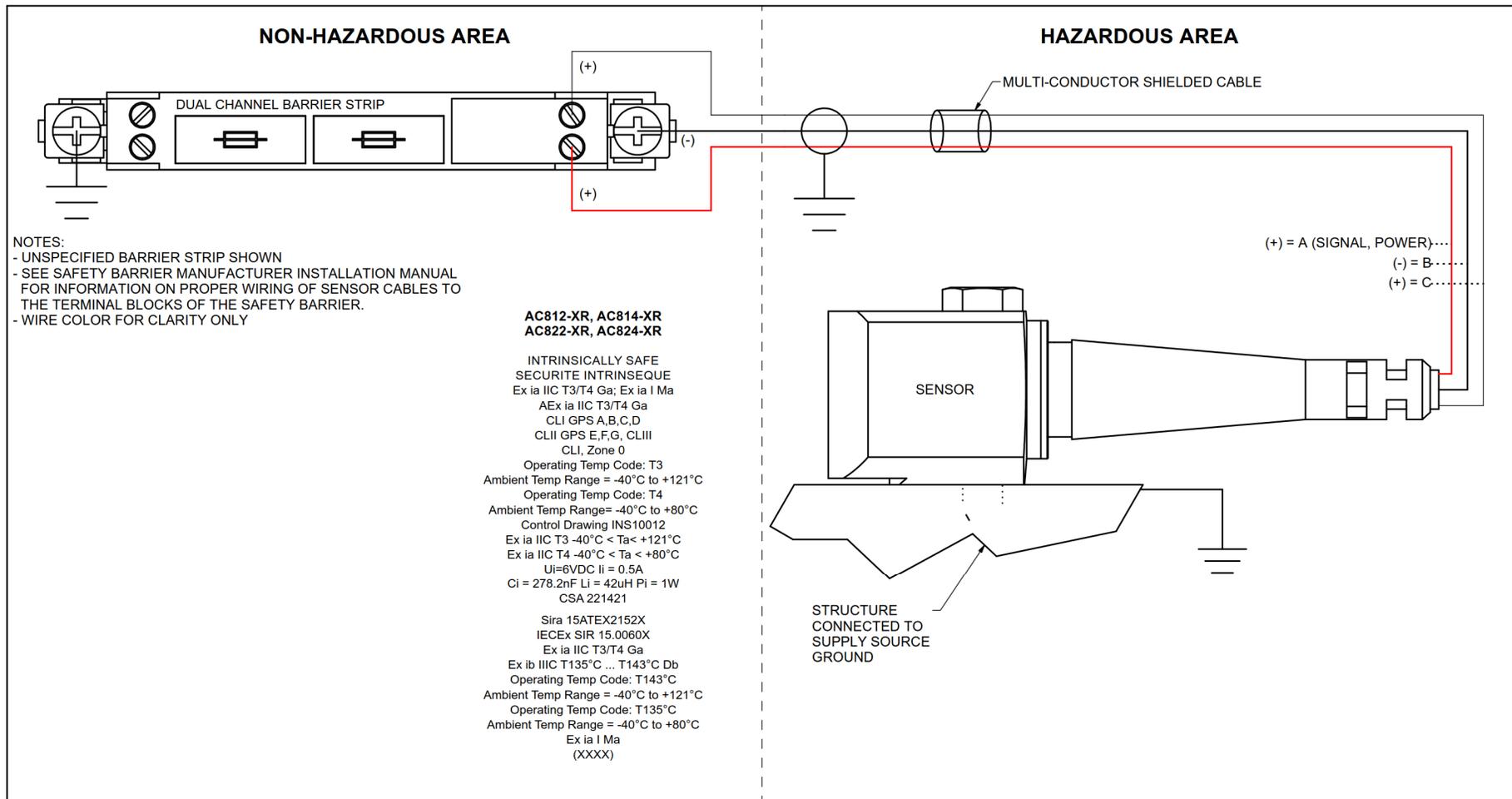


NOTES:

- DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
- CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE	FCOM APPROVED	DATE

 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED) TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:		SHEET
INS10012		1 / 18
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		



NOTES:
 - UNSPECIFIED BARRIER STRIP SHOWN
 - SEE SAFETY BARRIER MANUFACTURER INSTALLATION MANUAL FOR INFORMATION ON PROPER WIRING OF SENSOR CABLES TO THE TERMINAL BLOCKS OF THE SAFETY BARRIER.
 - WIRE COLOR FOR CLARITY ONLY

**AC812-XR, AC814-XR
 AC822-XR, AC824-XR**

INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 Ex ia IIC T3/T4 Ga; Ex ia I Ma
 AEx ia IIC T3/T4 Ga
 CLI GPS A,B,C,D
 CLII GPS E,F,G, CLIII
 CLI, Zone 0

Operating Temp Code: T3
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T4
 Ambient Temp Range = -40°C to +80°C
 Control Drawing INS10012
 Ex ia IIC T3 -40°C < Ta < +121°C
 Ex ia IIC T4 -40°C < Ta < +80°C
 Ui=6VDC li = 0.5A
 Ci = 278.2nF Li = 42uH Pi = 1W
 CSA 221421

Sira 15ATEX2152X
 IECEX SIR 15.0060X
 Ex ia IIC T3/T4 Ga
 Ex ib IIIC T135°C ... T143°C Db
 Operating Temp Code: T143°C
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T135°C
 Ambient Temp Range = -40°C to +80°C
 Ex ia I Ma
 (XXXX)

(+) = A (SIGNAL, POWER)....
 (-) = B.....
 (+) = C.....

STRUCTURE
 CONNECTED TO
 SUPPLY SOURCE
 GROUND

NOTES:
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 [(Ccaable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE	DATE APPROVED	DATE



CONNECTION TECHNOLOGY CENTER, INC

MATERIAL

N/A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 TOLERANCES (UNLESS SPECIFIED)
 XXXX ± 0.0005
 XXX ± 0.005
 XX ± 0.01
 X ± 0.1
 ANGLE ± 2°
 BREAK ALL SHARP EDGES
 .010 MAX

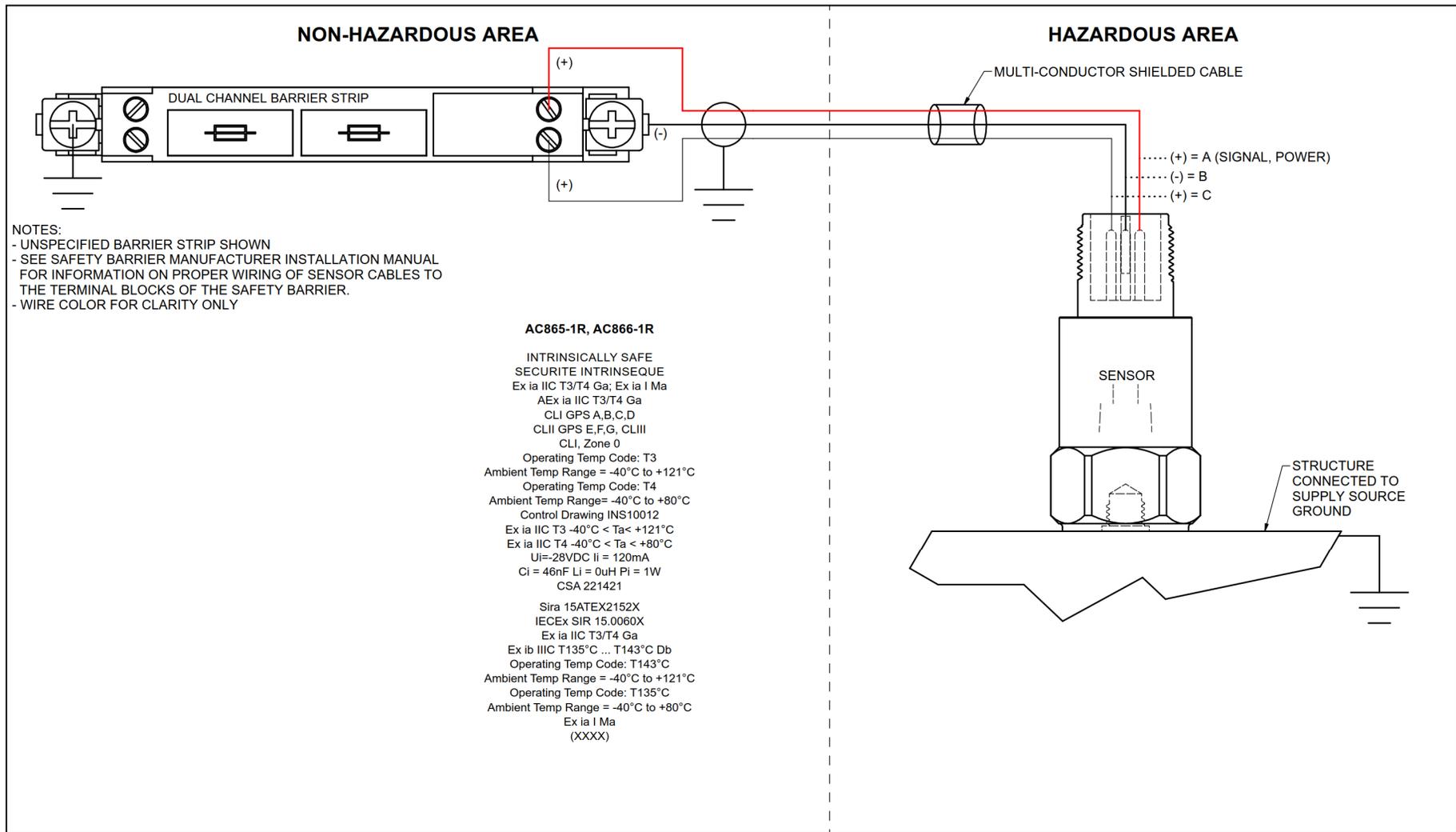
PART #: INS10012

DESCRIPTION: INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET

2 / 18

NOT DRAWN TO SCALE

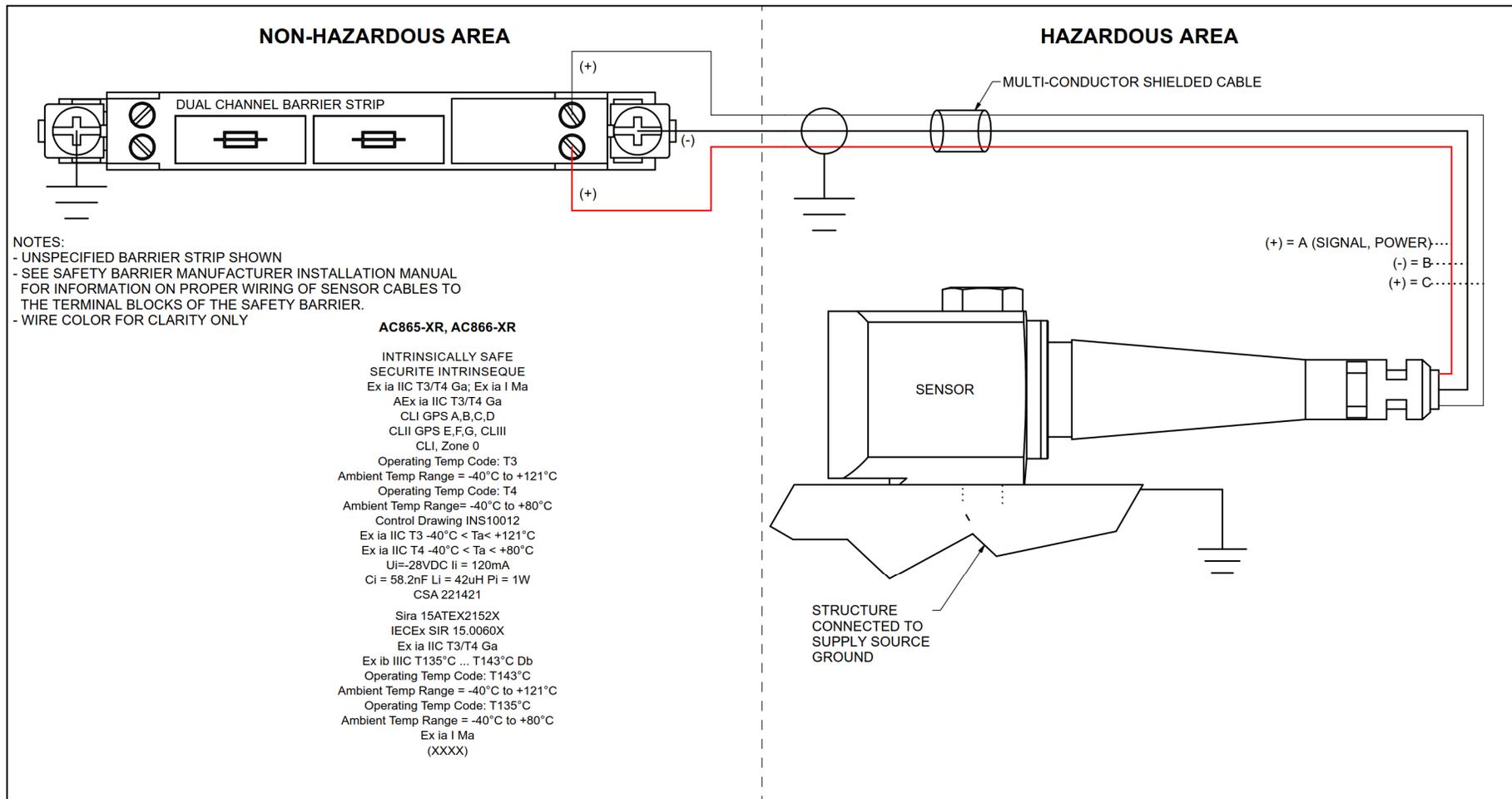


NOTES:
 - UNSPECIFIED BARRIER STRIP SHOWN
 - SEE SAFETY BARRIER MANUFACTURER INSTALLATION MANUAL FOR INFORMATION ON PROPER WIRING OF SENSOR CABLES TO THE TERMINAL BLOCKS OF THE SAFETY BARRIER.
 - WIRE COLOR FOR CLARITY ONLY

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 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE	DATE APPROVED	DATE

 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED) TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:		SHEET
INS10012		3 / 18
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		



NOTES:

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N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	DESIGNER	FILE APPROVED	DATE	FILE APPROVED	DATE

CTC
CONNECTION TECHNOLOGY CENTER, INC

MATERIAL
N/A

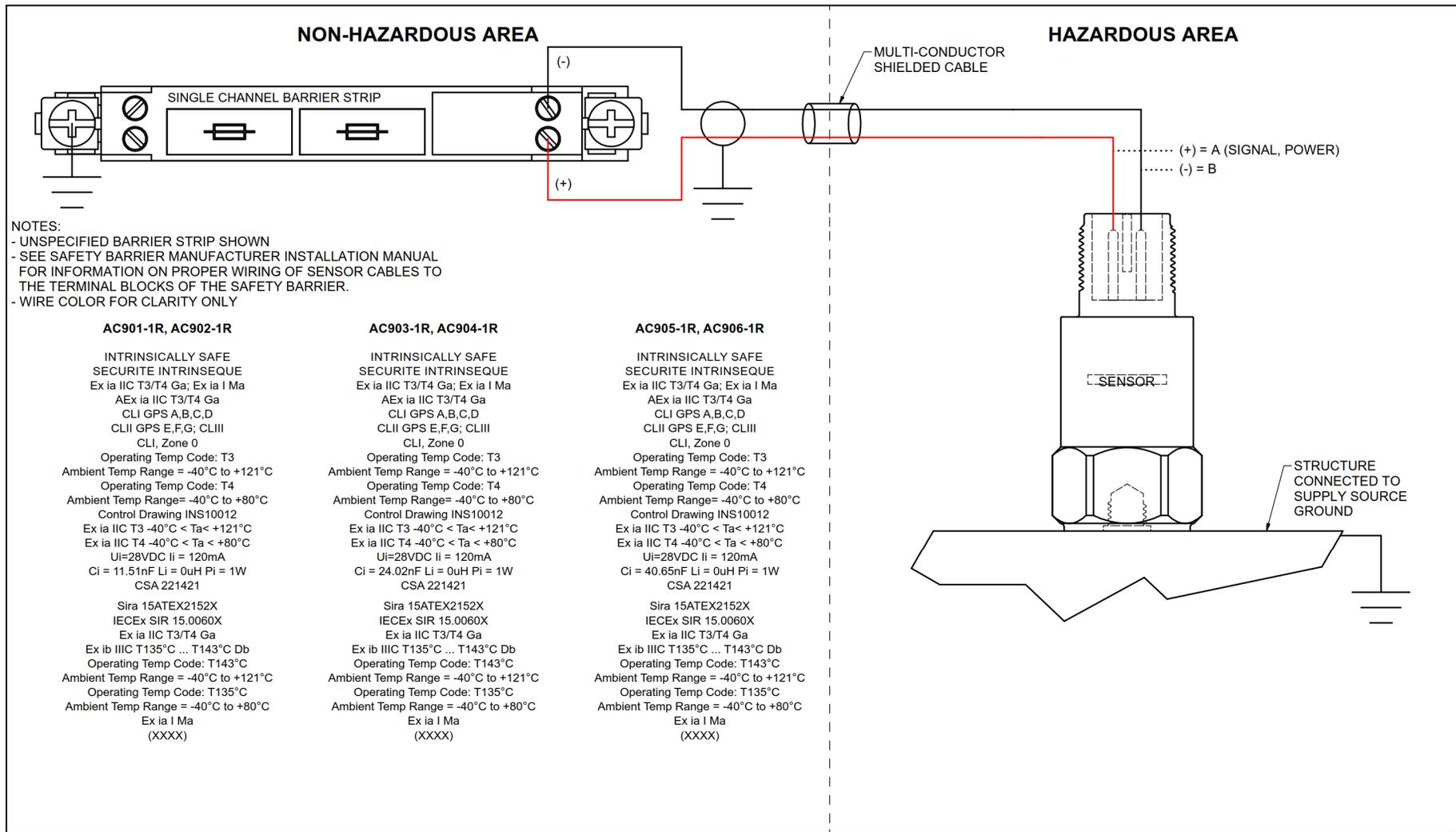
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
TOLERANCES (UNLESS SPECIFIED)
XXXX ± 0.0005
XXX ± 0.005
XX ± 0.01
X ± 0.1
ANGLE ± 2°
BREAK ALL SHARP EDGES
.010 MAX

PART #:
INS10012

DESCRIPTION:
INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET
4 / 18

NOT DRAWN TO SCALE



NOTES:
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 - WIRE COLOR FOR CLARITY ONLY

AC901-1R, AC902-1R

INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 Ex ia IIC T3/T4 Ga; Ex ia I Ma
 AEx ia IIC T3/T4 Ga
 CLI GPS A,B,C,D
 CLII GPS E,F,G; CLIII
 CLI, Zone 0
 Operating Temp Code: T3
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T4
 Ambient Temp Range = -40°C to +80°C
 Control Drawing INS10012
 Ex ia IIC T3 -40°C < Ta < +121°C
 Ex ia IIC T4 -40°C < Ta < +80°C
 Ui=28VDC li = 120mA
 Ci = 11.51nF Li = 0uH Pi = 1W
 CSA 221421

Sira 15ATEX2152X
 IECEX SIR 15.0060X
 Ex ia IIC T3/T4 Ga
 Ex ib IIIC T135°C ... T143°C Db
 Operating Temp Code: T143°C
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T135°C
 Ambient Temp Range = -40°C to +80°C
 Ex ia I Ma
 (XXXX)

AC903-1R, AC904-1R

INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 Ex ia IIC T3/T4 Ga; Ex ia I Ma
 AEx ia IIC T3/T4 Ga
 CLI GPS A,B,C,D
 CLII GPS E,F,G; CLIII
 CLI, Zone 0
 Operating Temp Code: T3
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T4
 Ambient Temp Range = -40°C to +80°C
 Control Drawing INS10012
 Ex ia IIC T3 -40°C < Ta < +121°C
 Ex ia IIC T4 -40°C < Ta < +80°C
 Ui=28VDC li = 120mA
 Ci = 24.02nF Li = 0uH Pi = 1W
 CSA 221421

Sira 15ATEX2152X
 IECEX SIR 15.0060X
 Ex ia IIC T3/T4 Ga
 Ex ib IIIC T135°C ... T143°C Db
 Operating Temp Code: T143°C
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T135°C
 Ambient Temp Range = -40°C to +80°C
 Ex ia I Ma
 (XXXX)

AC905-1R, AC906-1R

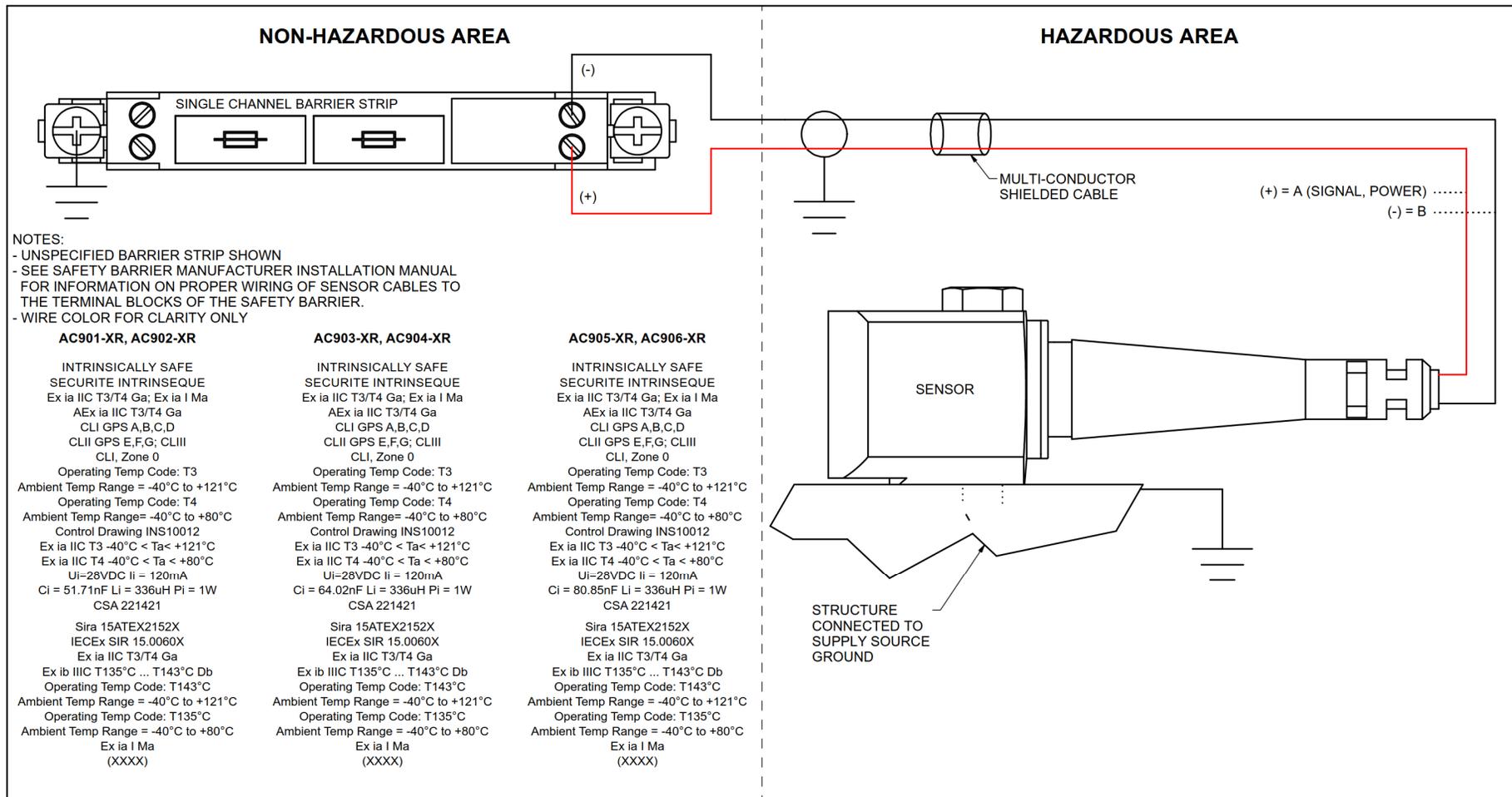
INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 Ex ia IIC T3/T4 Ga; Ex ia I Ma
 AEx ia IIC T3/T4 Ga
 CLI GPS A,B,C,D
 CLII GPS E,F,G; CLIII
 CLI, Zone 0
 Operating Temp Code: T3
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T4
 Ambient Temp Range = -40°C to +80°C
 Control Drawing INS10012
 Ex ia IIC T3 -40°C < Ta < +121°C
 Ex ia IIC T4 -40°C < Ta < +80°C
 Ui=28VDC li = 120mA
 Ci = 40.65nF Li = 0uH Pi = 1W
 CSA 221421

Sira 15ATEX2152X
 IECEX SIR 15.0060X
 Ex ia IIC T3/T4 Ga
 Ex ib IIIC T135°C ... T143°C Db
 Operating Temp Code: T143°C
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T135°C
 Ambient Temp Range = -40°C to +80°C
 Ex ia I Ma
 (XXXX)

NOTES:
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 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCM	DESIGNER	DATE	APPROVED	DATE

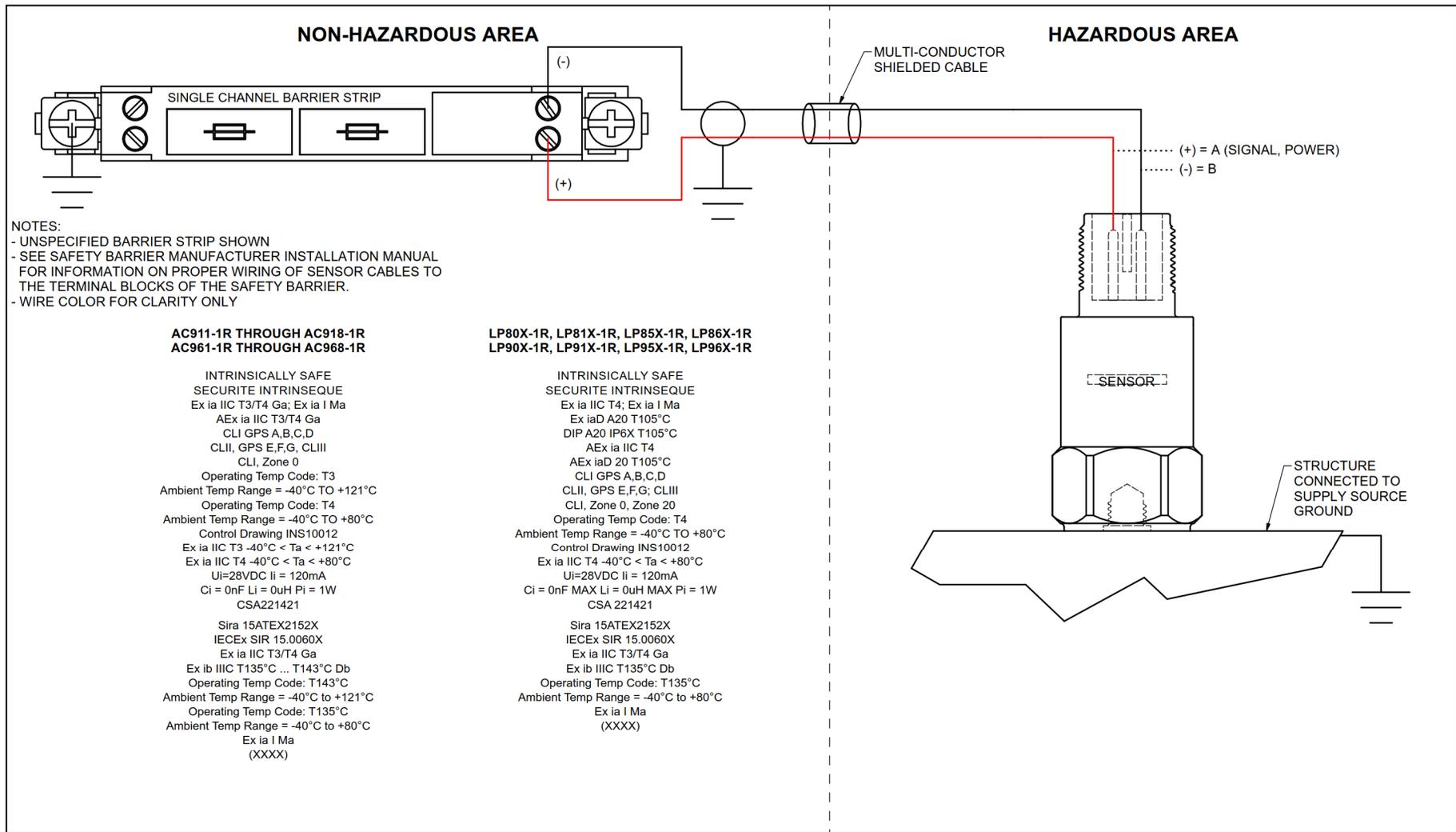
 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL N/A	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES (UNLESS SPECIFIED): XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	PART #: INS10012	SHEET 5 / 18
DESCRIPTION: INTRINSIC SAFE SENSOR CONTROL DRAWING		NOT DRAWN TO SCALE



NOTES:
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REV	DESCRIPTION	DATE	DESIGNER	DATE APPROVED	DATE	APPROVED
N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	02/25/2025	CT	CCM	02/25/2025	CCM
M	UPDATED CSAE 22UKEX1408X	03/31/2023	CRW	JN	03/31/2023	JN
L	UPDATED TO INCLUDE Ex ia Ma	02/22/2023	CRW	LC	02/22/2023	JN
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	02/07/2022	CRW	LC	02/07/2022	JN
I	REMOVED WT83*, CHANGED TO 120mA	02/19/2019	CRW	JBD	02/19/2019	AJN
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	04/18/2017	CRW/DMG	MGS	04/18/2017	JLS
G	ADDING CTC ADDRESS	06/15/2015	CRW	TJW	-	-

	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:		SHEET
INS10012		6 / 18
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		

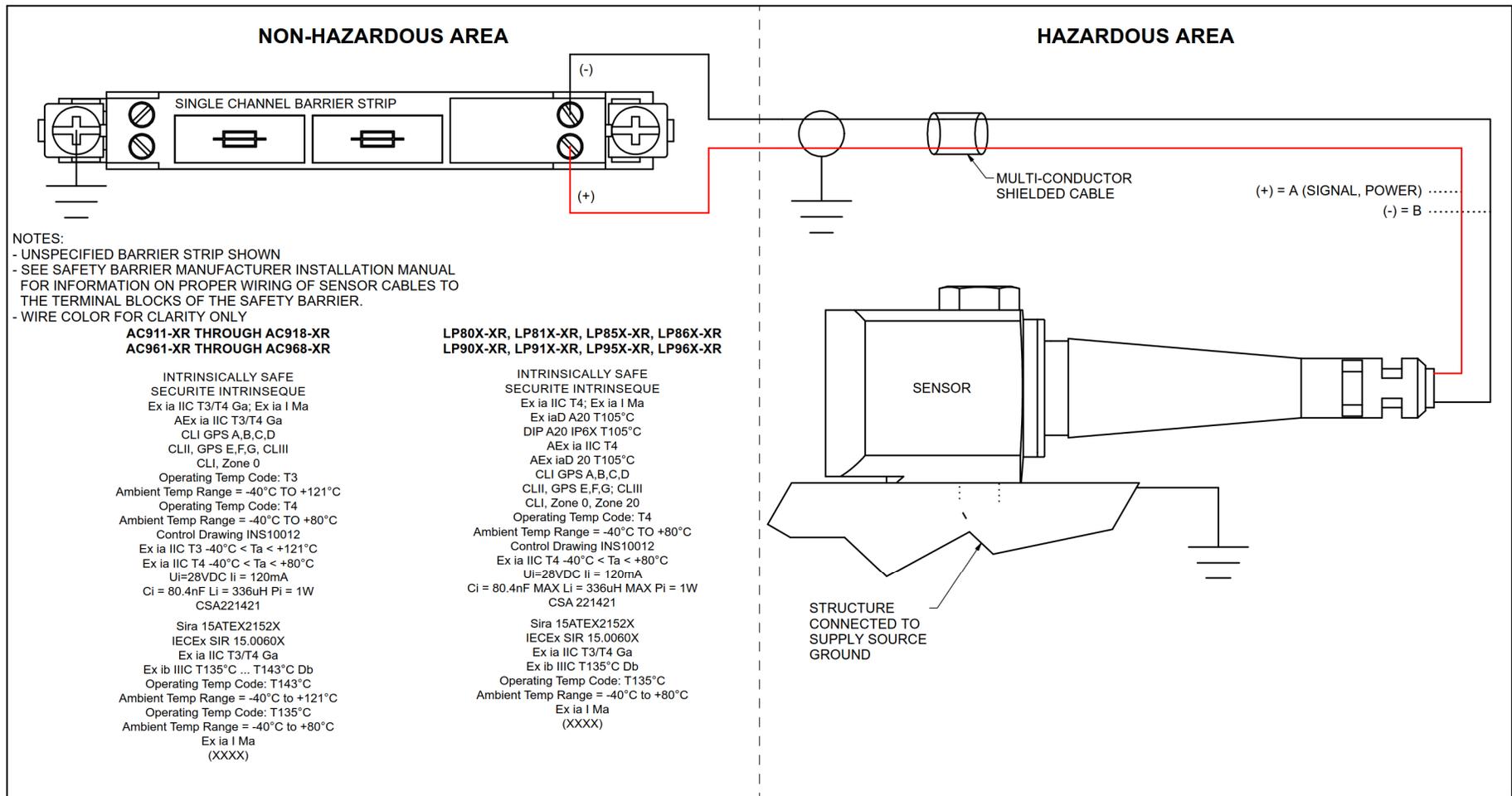


NOTES:

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N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE	APPROVED	DATE

 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED) TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:		SHEET
INS10012		7 / 18
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		

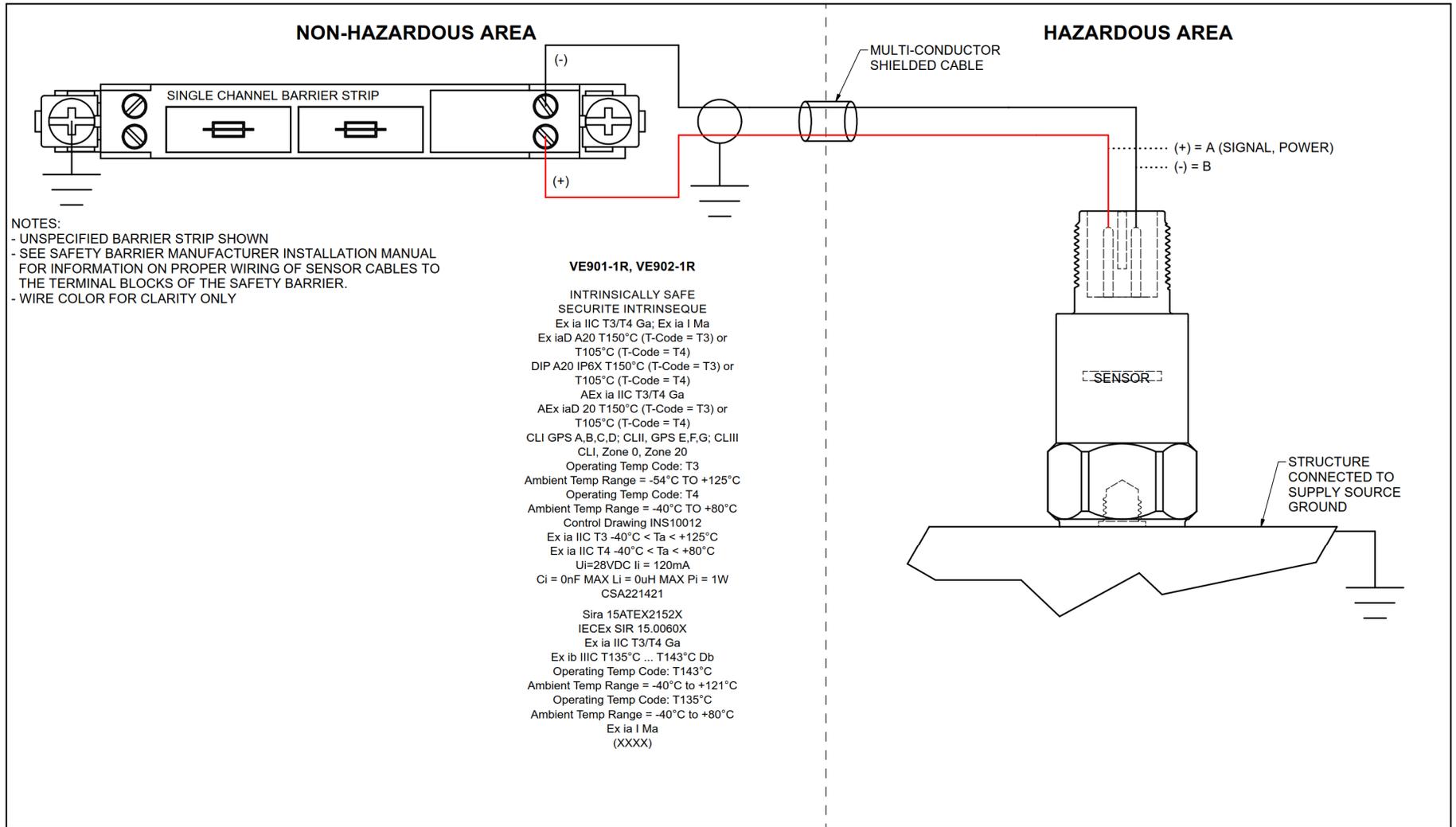


NOTES:

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N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
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L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
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G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE	DATE APPROVED

	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED) TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:		SHEET
INS10012		8 / 18
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		

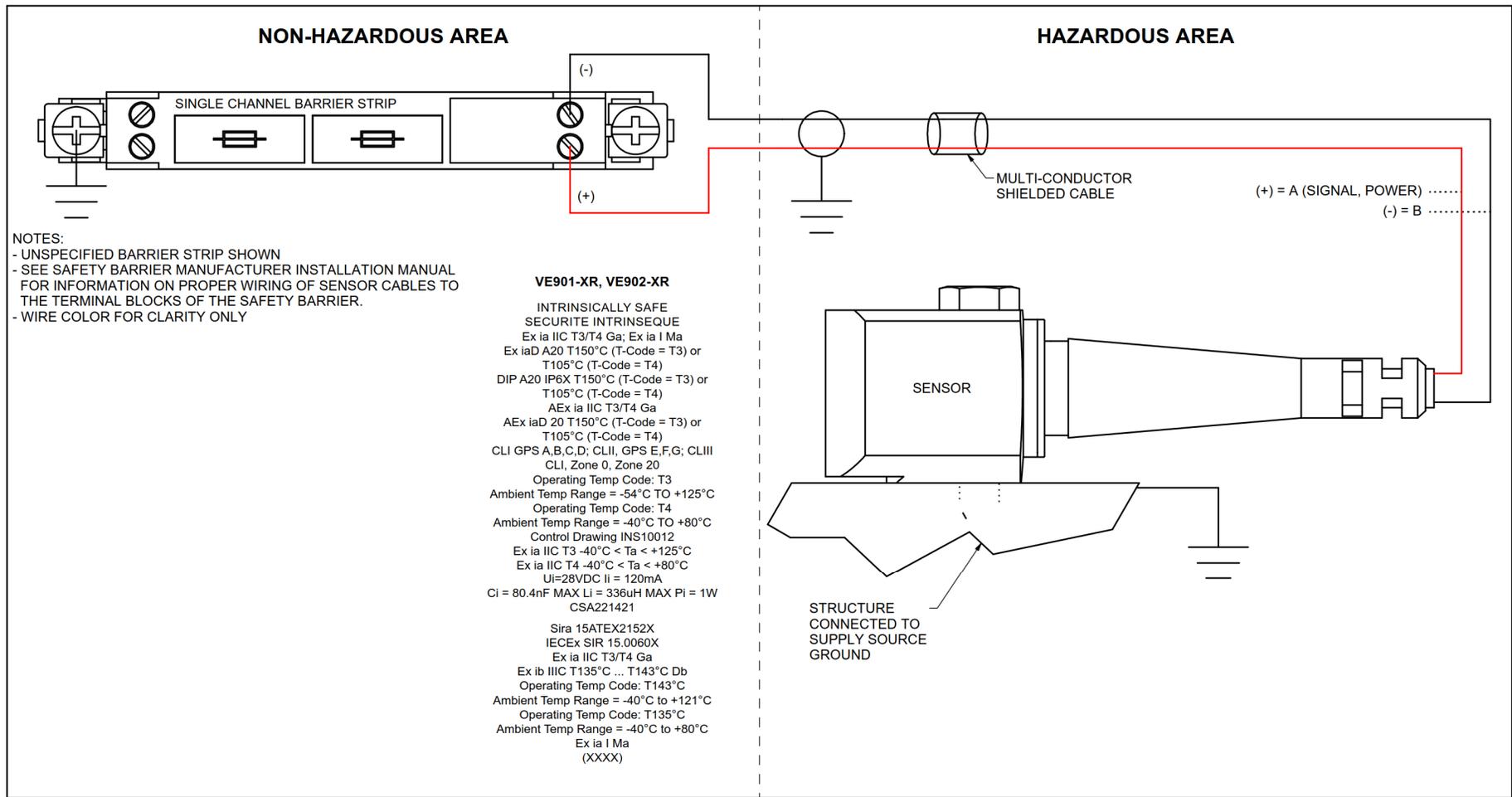


NOTES:
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[(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAxIAL SENSORS	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE	DATE APPROVED	DATE

 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES (UNLESS SPECIFIED): XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:		SHEET
INS10012		9 / 18
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		



NOTES:
 - DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
 - CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS
 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE APPROVED	DATE

CTC
 CONNECTION TECHNOLOGY CENTER, INC

MATERIAL
 N/A

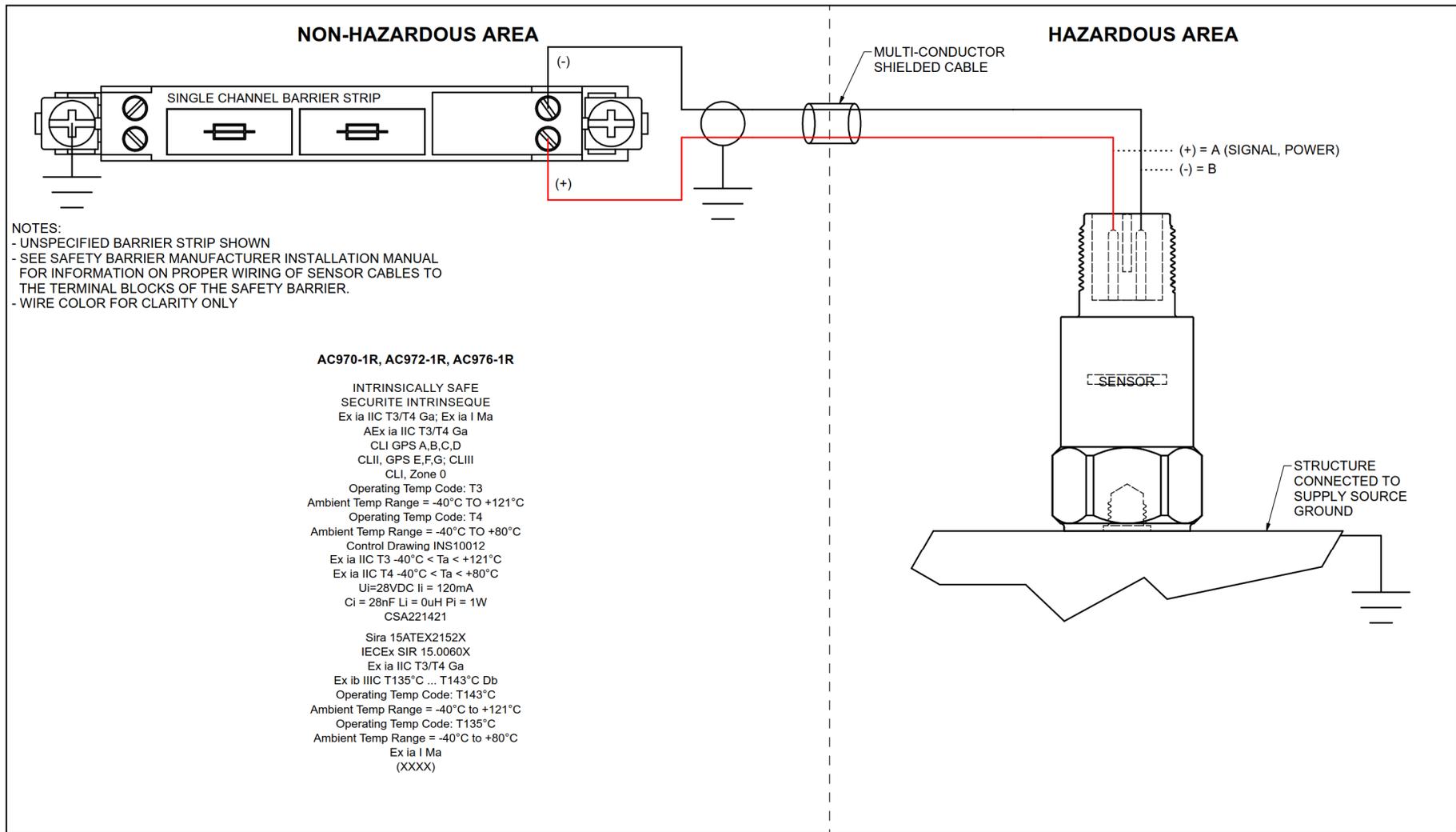
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 TOLERANCES (UNLESS SPECIFIED)
 XXXX ± 0.0005
 XXX ± 0.005
 XX ± 0.01
 X ± 0.1
 ANGLE ± 2°
 BREAK ALL SHARP EDGES
 .010 MAX

PART #:
 INS10012

DESCRIPTION:
 INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET
 10 / 18

NOT DRAWN TO SCALE



NOTES:
- UNSPECIFIED BARRIER STRIP SHOWN
- SEE SAFETY BARRIER MANUFACTURER INSTALLATION MANUAL FOR INFORMATION ON PROPER WIRING OF SENSOR CABLES TO THE TERMINAL BLOCKS OF THE SAFETY BARRIER.
- WIRE COLOR FOR CLARITY ONLY

NOTES:
- DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
- CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS
[(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAxIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	DESIGNER	DATE APPROVED	DATE	DATE APPROVED	DATE

CTC
CONNECTION TECHNOLOGY CENTER, INC

MATERIAL
N/A

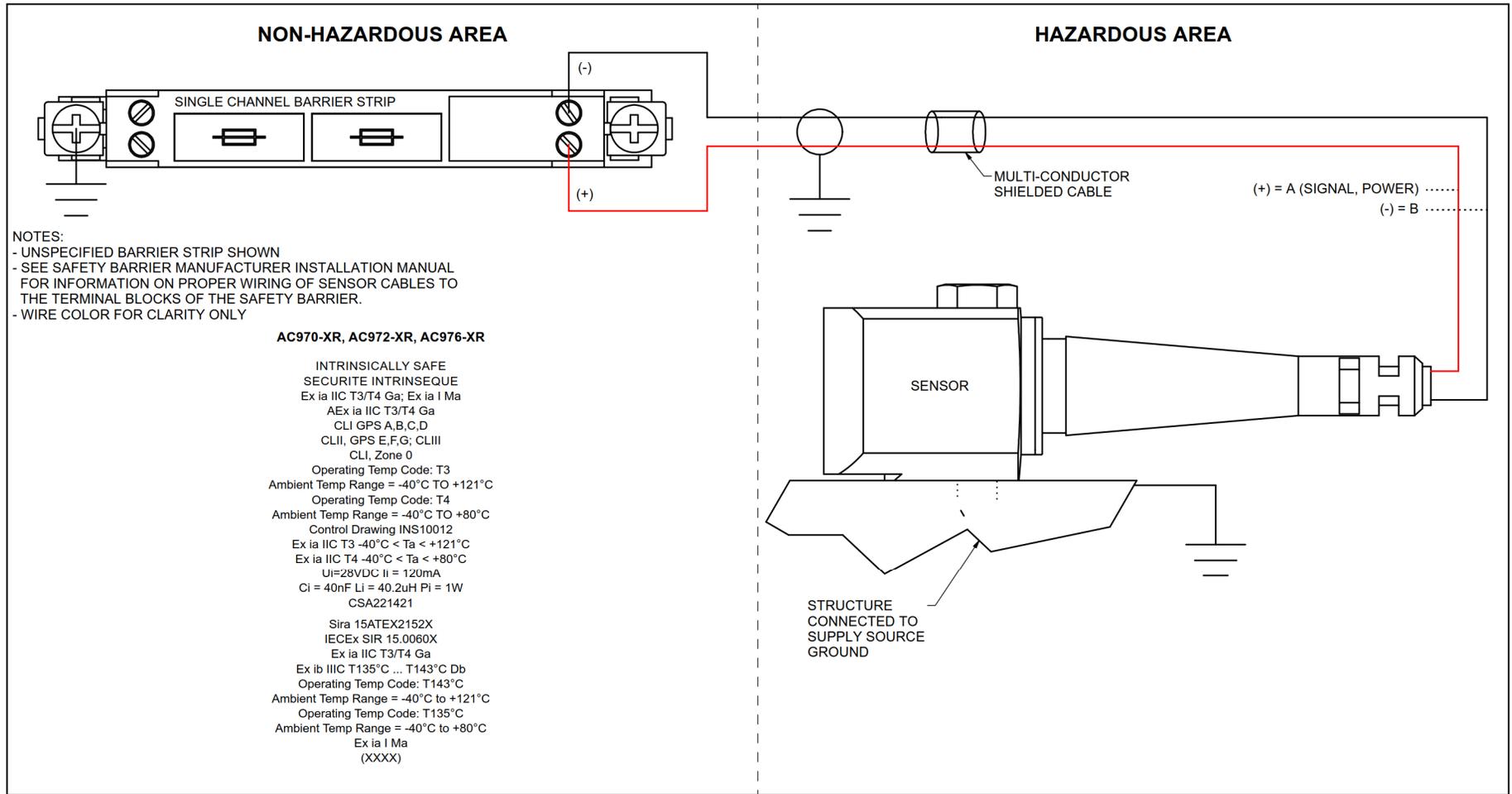
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
TOLERANCES (UNLESS SPECIFIED)
XXXX ± 0.0005
XXX ± 0.005
XX ± 0.01
X ± 0.1
ANGLE ± 2°
BREAK ALL SHARP EDGES .010 MAX

PART #:
INS10012

DESCRIPTION:
INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET
11 / 18

NOT DRAWN TO SCALE



NOTES:
 - DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
 - CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS
 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	DESIGNER	DATE APPROVED	DATE	DATE APPROVED	DATE

CTC
 CONNECTION TECHNOLOGY CENTER, INC

MATERIAL
 N/A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 TOLERANCES (UNLESS SPECIFIED)
 XXXX ± 0.0005
 XXX ± 0.005
 XX ± 0.01
 X ± 0.1
 ANGLE ± 2°
 BREAK ALL SHARP EDGES
 .010 MAX

PART #:
 INS10012

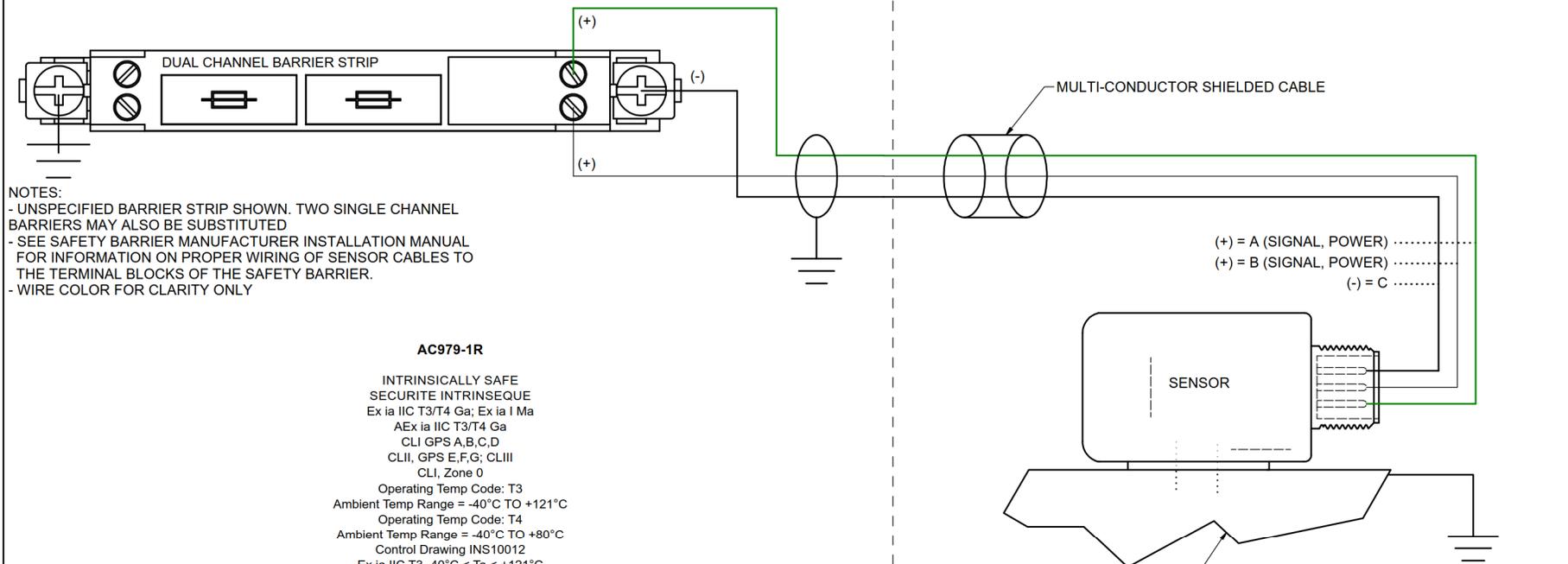
DESCRIPTION:
 INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET
 12 / 18

NOT DRAWN TO SCALE

NON-HAZARDOUS AREA

HAZARDOUS AREA



NOTES:
 - UNSPECIFIED BARRIER STRIP SHOWN. TWO SINGLE CHANNEL BARRIERS MAY ALSO BE SUBSTITUTED
 - SEE SAFETY BARRIER MANUFACTURER INSTALLATION MANUAL FOR INFORMATION ON PROPER WIRING OF SENSOR CABLES TO THE TERMINAL BLOCKS OF THE SAFETY BARRIER.
 - WIRE COLOR FOR CLARITY ONLY

AC979-1R
 INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 Ex ia IIC T3/T4 Ga; Ex ia I Ma
 AEx ia IIC T3/T4 Ga
 CLI GPS A,B,C,D
 CLII, GPS E,F,G; CLIII
 CLI, Zone 0
 Operating Temp Code: T3
 Ambient Temp Range = -40°C TO +121°C
 Operating Temp Code: T4
 Ambient Temp Range = -40°C TO +80°C
 Control Drawing INS10012
 Ex ia IIC T3 -40°C < Ta < +121°C
 Ex ia IIC T4 -40°C < Ta < +80°C
 Ui=28VDC Ii = 120mA
 Ci = 28nF Li = 0uH Pi = 1W
 CSA221421
 Sira 15ATEX2152X
 IECEX SIR 15.0060X
 Ex ia IIC T3/T4 Ga
 Ex ib IIIC T135°C ... T143°C Db
 Operating Temp Code: T143°C
 Ambient Temp Range = -40°C to +121°C
 Operating Temp Code: T135°C
 Ambient Temp Range = -40°C to +80°C
 Ex ia I Ma
 (XXXX)

NOTES:
 - DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
 - CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS
 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	BY	DESIGNER	DATE	BY	DATE



CONNECTION TECHNOLOGY CENTER, INC

MATERIAL

N/A

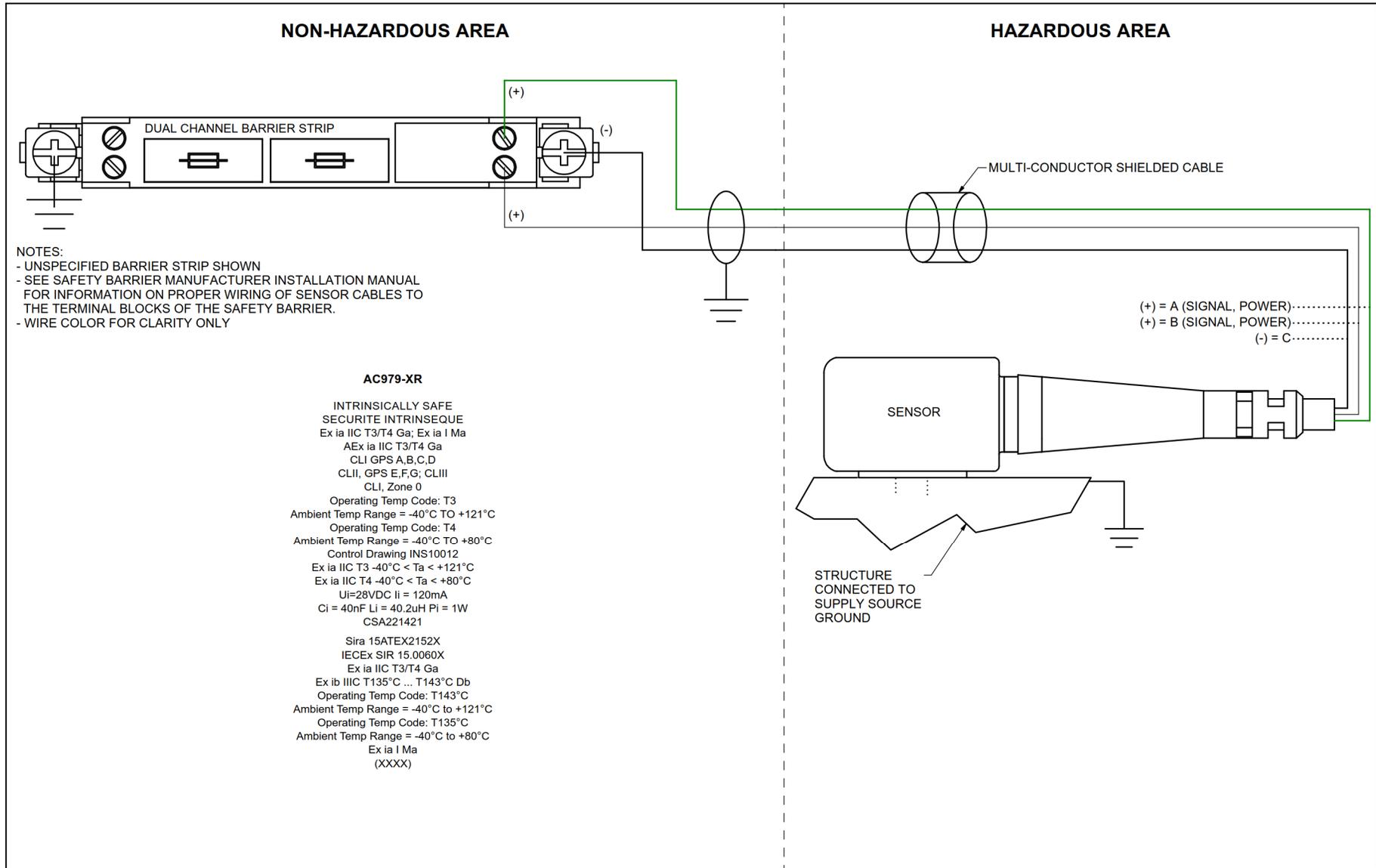
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 TOLERANCES (UNLESS SPECIFIED)
 XXXX ± 0.0005
 XXX ± 0.005
 XX ± 0.01
 X ± 0.1
 ANGLE ± 2°
 BREAK ALL SHARP EDGES
 .010 MAX

PART #: INS10012

DESCRIPTION: INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET 13 / 18

NOT DRAWN TO SCALE



NOTES:
 - DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
 - CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS
 [(Cable + Ci < Ca) & (L.cable + Li < La)]

REV	DESCRIPTION	DATE	DESIGNER	APPROVED	DATE	DESIGNER	APPROVED
N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	02/25/2025	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	03/31/2023	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	02/22/2023	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	02/07/2022	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	02/19/2019	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	04/18/2017	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	06/15/2015	CRW	TJW	-	-	-



CONNECTION TECHNOLOGY CENTER, INC

MATERIAL

N/A

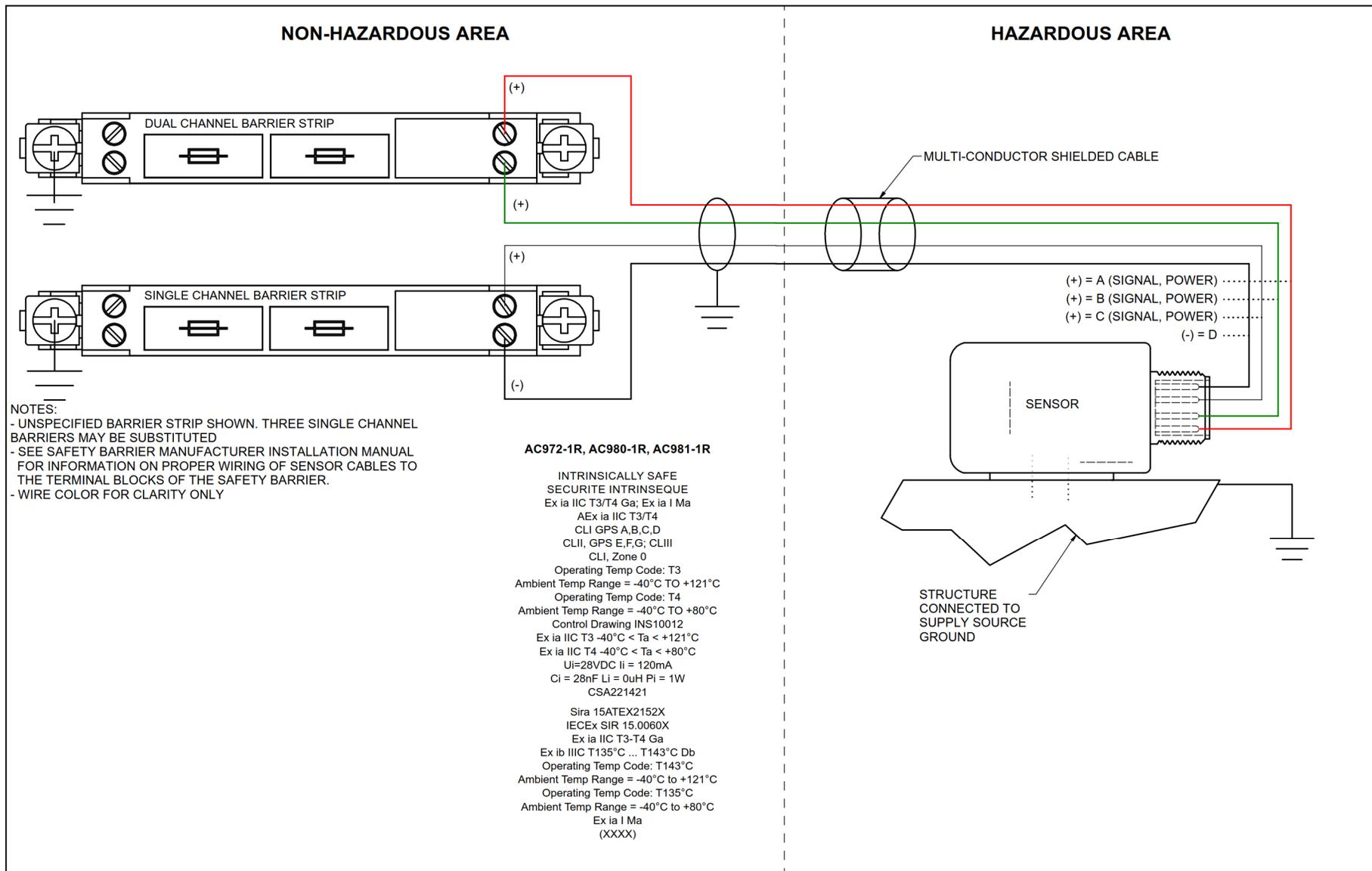
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 TOLERANCES (UNLESS SPECIFIED):
 XXXX ± 0.0005
 XXX ± 0.005
 XX ± 0.01
 X ± 0.1
 ANGLE ± 2°
 BREAK ALL SHARP EDGES
 .010 MAX

PART #: INS10012

DESCRIPTION: INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET 14 / 18

NOT DRAWN TO SCALE



NOTES:
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 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X	CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
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G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	DESIGNER	DATE APPROVED	DATE APPROVED	DATE APPROVED	DATE APPROVED

CTC
 CONNECTION TECHNOLOGY CENTER, INC

MATERIAL
 N/A

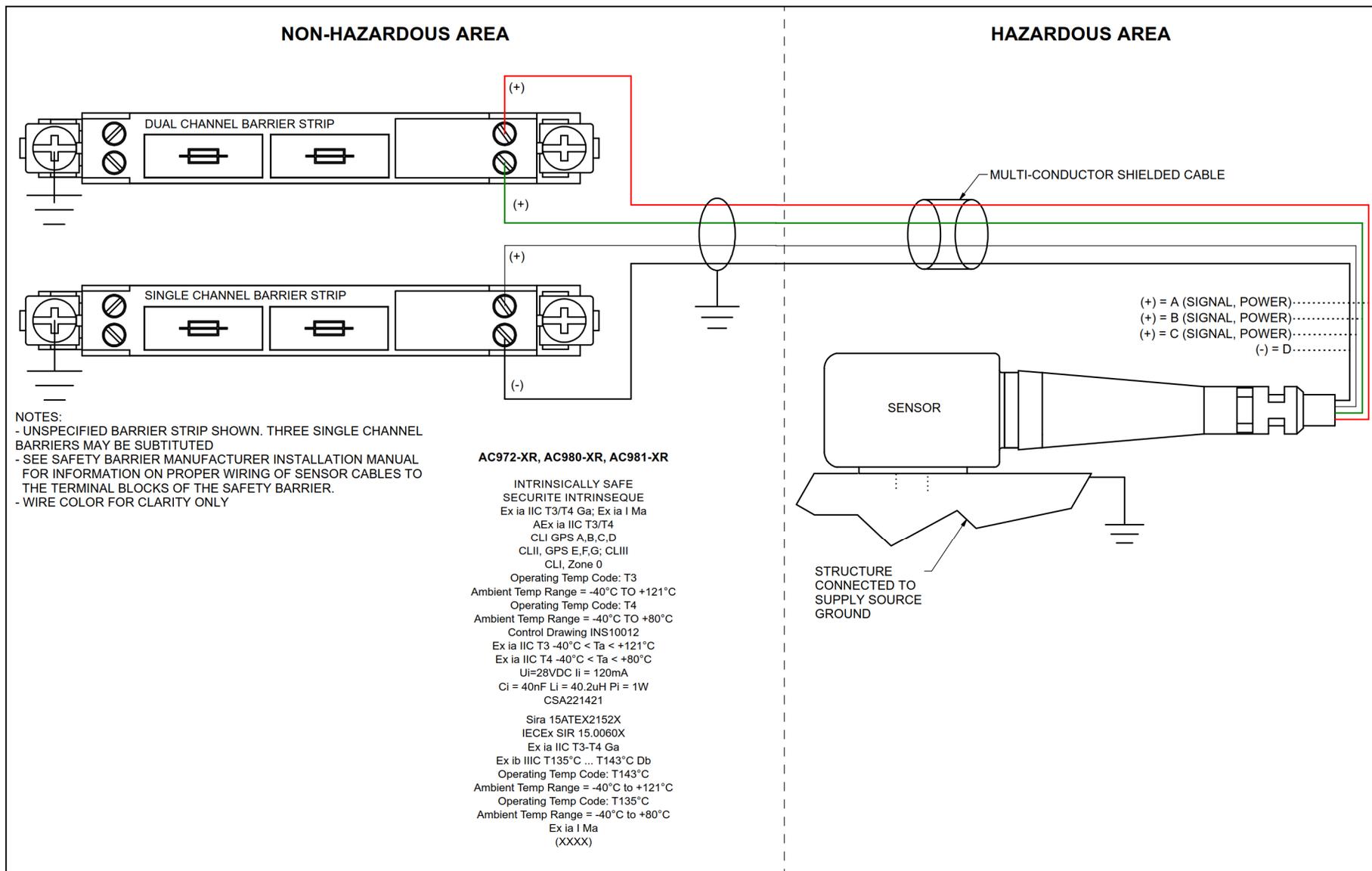
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 TOLERANCES (UNLESS SPECIFIED)
 XXXX ± 0.0005
 XXX ± 0.005
 XX ± 0.01
 X ± 0.1
 ANGLE ± 2°
 BREAK ALL SHARP EDGES .010 MAX

PART #:
 INS10012

DESCRIPTION:
 INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET
 15 / 18

NOT DRAWN TO SCALE

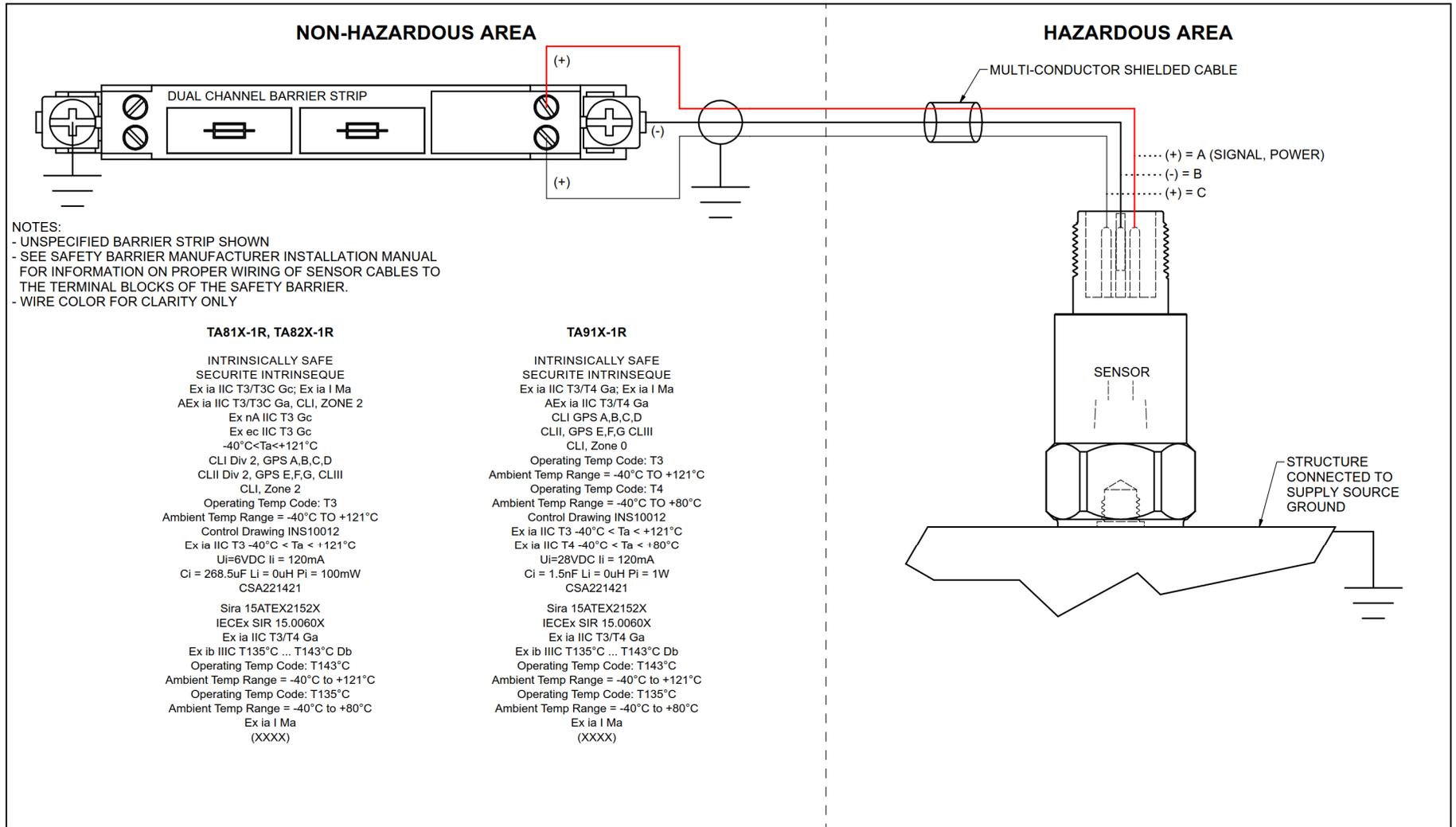


NOTES:
 - UNSPECIFIED BARRIER STRIP SHOWN. THREE SINGLE CHANNEL BARRIERS MAY BE SUBSTITUTED
 - SEE SAFETY BARRIER MANUFACTURER INSTALLATION MANUAL FOR INFORMATION ON PROPER WIRING OF SENSOR CABLES TO THE TERMINAL BLOCKS OF THE SAFETY BARRIER.
 - WIRE COLOR FOR CLARITY ONLY

NOTES:
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 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEx SIR 15.0060X	CT	CCM	02/25/2025	CCM	02/25/2025
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L	UPDATED TO INCLUDE Ex ia Ma	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAxIAL SENSORS	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	DESIGNER	DATE APPROVED	DATE	DATE APPROVED	DATE

<p>CONNECTION TECHNOLOGY CENTER, INC</p>	<p>MATERIAL</p> <p>N/A</p>	<p>ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED</p> <p>TOLERANCES (UNLESS SPECIFIED)</p> <p>XXXX ± 0.0005</p> <p>XXX ± 0.005</p> <p>XX ± 0.01</p> <p>X ± 0.1</p> <p>ANGLE ± 2°</p> <p>BREAK ALL SHARP EDGES .010 MAX</p>
	<p>PART #:</p> <p>INS10012</p>	<p>SHEET</p> <p>16 / 18</p>
<p>DESCRIPTION:</p> <p>INTRINSIC SAFE SENSOR CONTROL DRAWING</p>		<p>NOT DRAWN TO SCALE</p>



NOTES:
 - DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
 - CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS
 [(Cable + Ci < Ca) & (Lcable + Li < La)]

N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025
M	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
I	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
H	ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK, SEPERATED TA & BIAIXIAL SENSORS	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
REV	DESCRIPTION	FCOM	DESIGNER	DATE APPROVED	DATE	FCOM APPROVED	DATE

	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED) TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	63
PART #:	INS10012	
DESCRIPTION:	INTRINSIC SAFE SENSOR CONTROL DRAWING	
	SHEET	17 / 18
	NOT DRAWN TO SCALE	

