

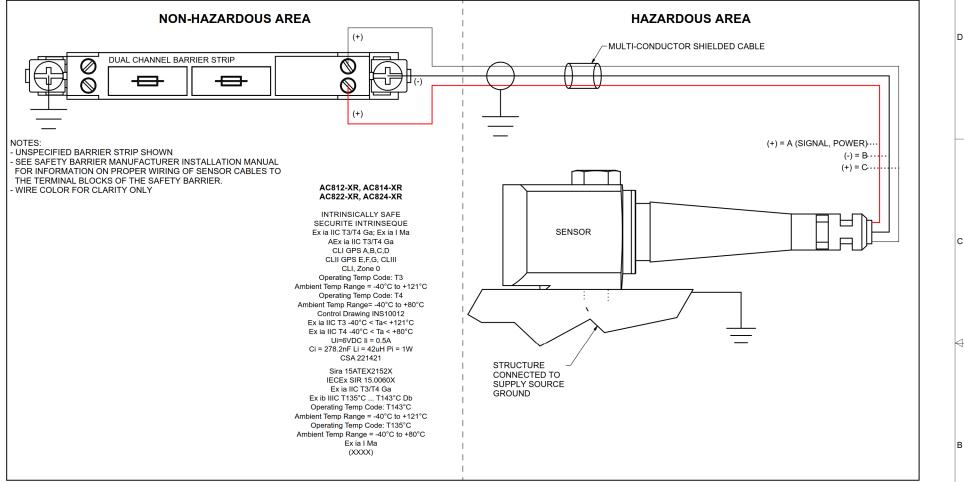
### NOTE

- 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
(Capable Cis Cos) & (Capable List Apparatus)

Ī	N	REMOVED CSAE 22UKEX1408X, UPDATED IECEx SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025
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^	М	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
$^{\sim}$	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
	-1	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
		ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF						
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
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	MATERIAL	UNLESS O	SIONS ARE IN INCHES THERWISE SPECIFIED ES (UNLESS SPECIFIED)	
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXXX XXX XX ANGLE BREAK AL .010 MAX	± 0.0005 ± 0.005 ± 0.01 ± 0.01 ± 2° L SHARP EDGES	A
PART #:			SHEET	
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INTRINSIC SAFE SENSOR CON	NOT DRAWN TO SCALE			

DESAPPROVED ON behalf of the Certification Body Notified Body by acheng on 25 Mar 25



### NOTES:

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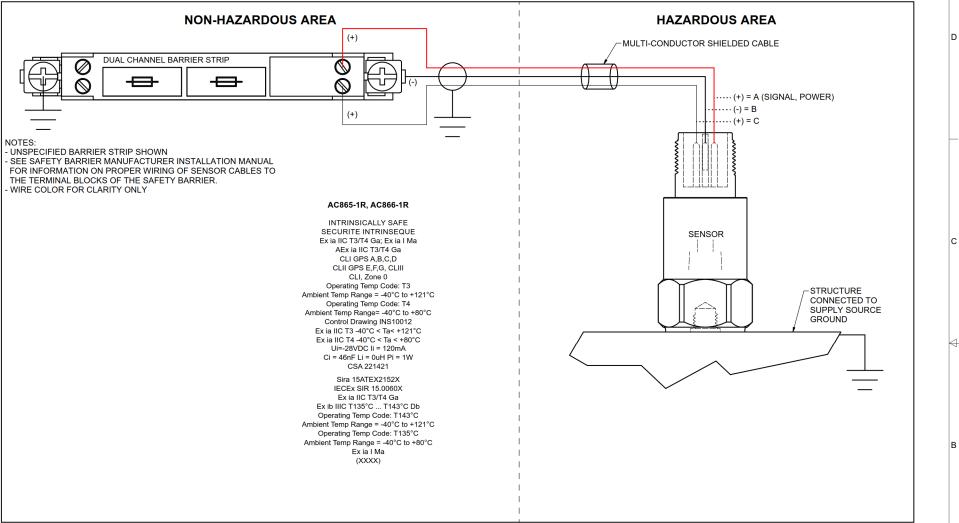
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[(Ccable + Ci < Ca) & (Lcable + Li < La)]

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	M	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
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L		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
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PART #:			SHEET
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ு Separation behalf of the certification Body Notified Body by achieng on 25 Mar 25



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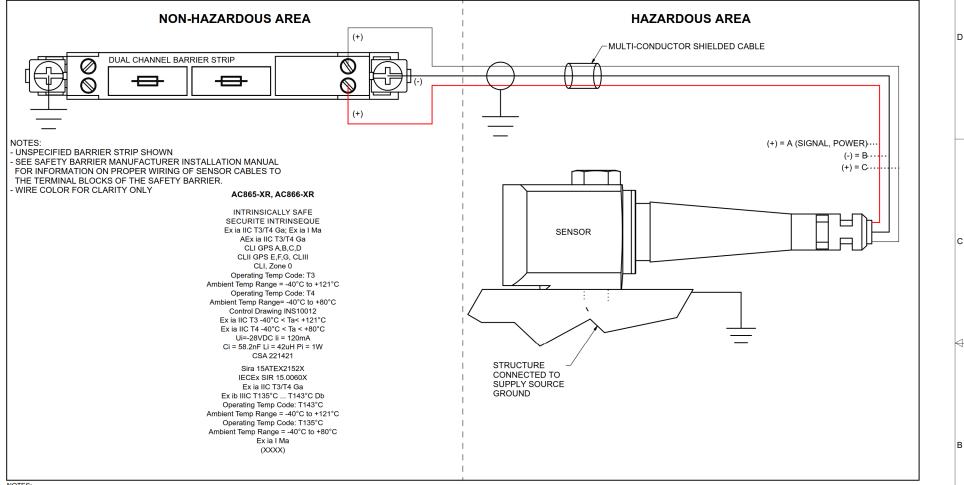
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	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
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	MATERIAL		SIONS ARE IN INCHES THERWISE SPECIFIED	
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXXX XXX XX X ANGLE	ES (UNLESS SPECIFIED)  ± 0.0005  ± 0.005  ± 0.01  ± 0.01  ± 0.1  ± 2°  L SHARP EDGES	A
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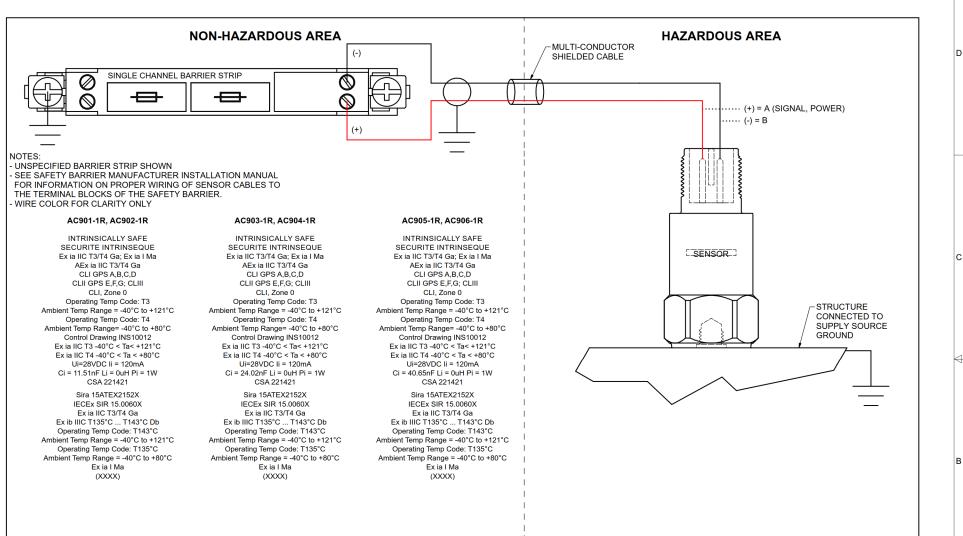
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		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
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	MATERIAL	UNLESS O	SIONS ARE IN INCHES THERWISE SPECIFIED
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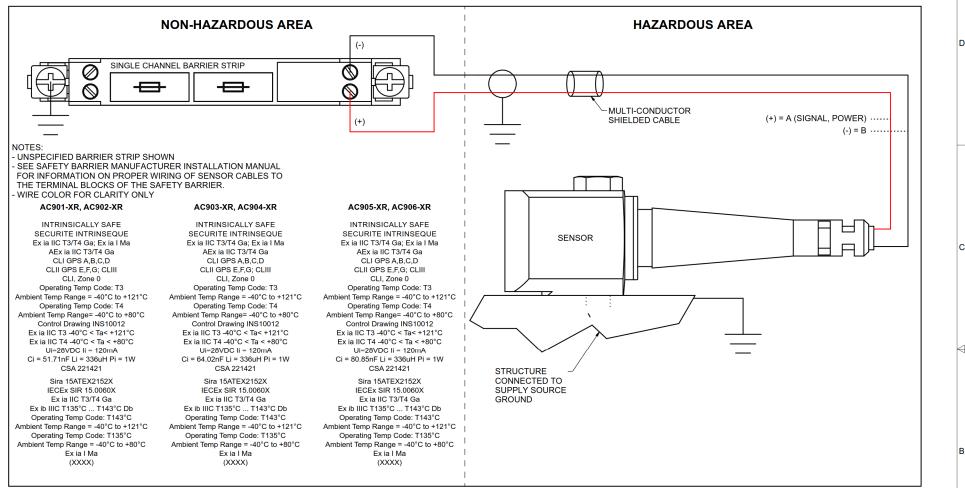
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	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
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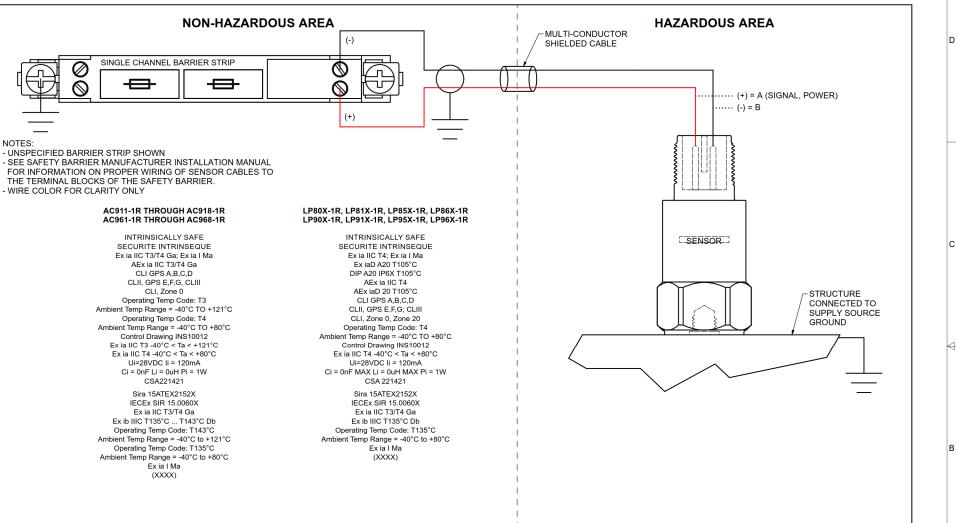
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	G REV	ADDING CTC ADDRESS  DESCRIPTION OF DEPT.	-	CRW	TJW IFNAPPRAMED	06/15/2015	- MFGAPPRQYEDE	
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO TITLE BLOCK. SEPERATED TA & BIAXIAL SENSORS	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
	I	REMOVED WT83*, CHANGED TO 120mA ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF	-	CRW	JBD	02/19/2019	AJN	02/19/2019
	K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
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	М	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
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	MATERIAL		SIONS ARE IN INCHES THERWISE SPECIFIED	
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXXX XXX XX X ANGLE	ES (UNLESS SPECIFIED)  ± 0.0005  ± 0.005  ± 0.001  ± 0.01  ± 0.01  ± 0.1  £ 2°  L SHARP EDGES	A
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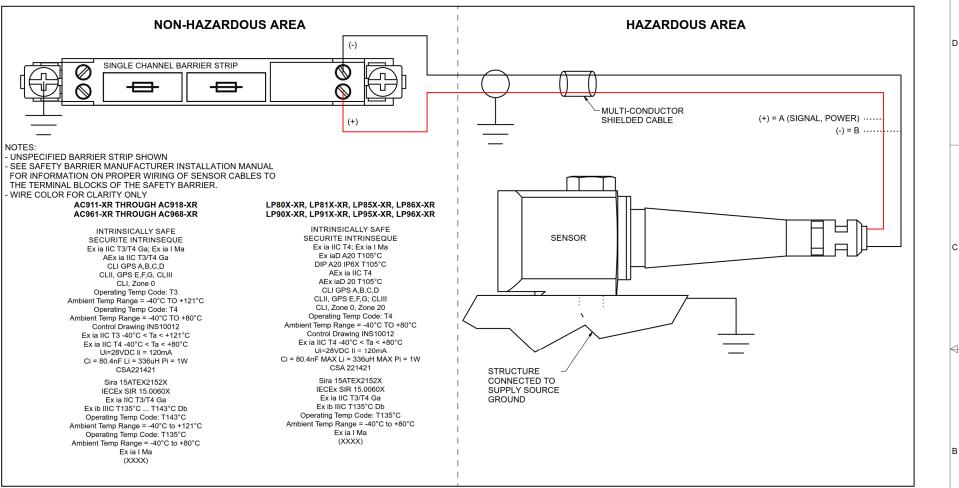
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	G	TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS ADDING CTC ADDRESS	-	CRW	TJW • iffi@approved [	06/15/2015		-
		ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO		CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
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	N	REMOVED CSAE 22UKEX1408X, UPDATED IECEx SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025

	MATERIAL	UNLESS O	SIONS ARE IN INCHES THERWISE SPECIFIED ES (UNLESS SPECIFIED)	
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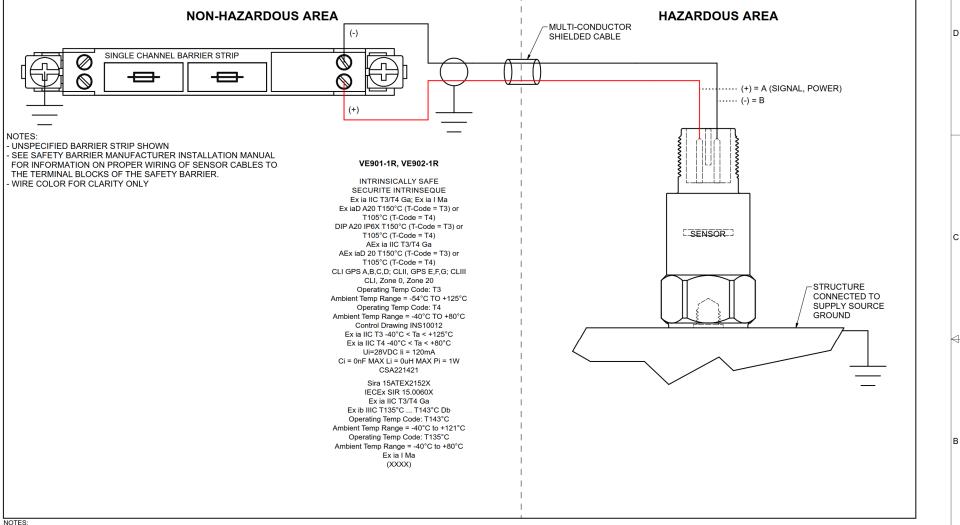
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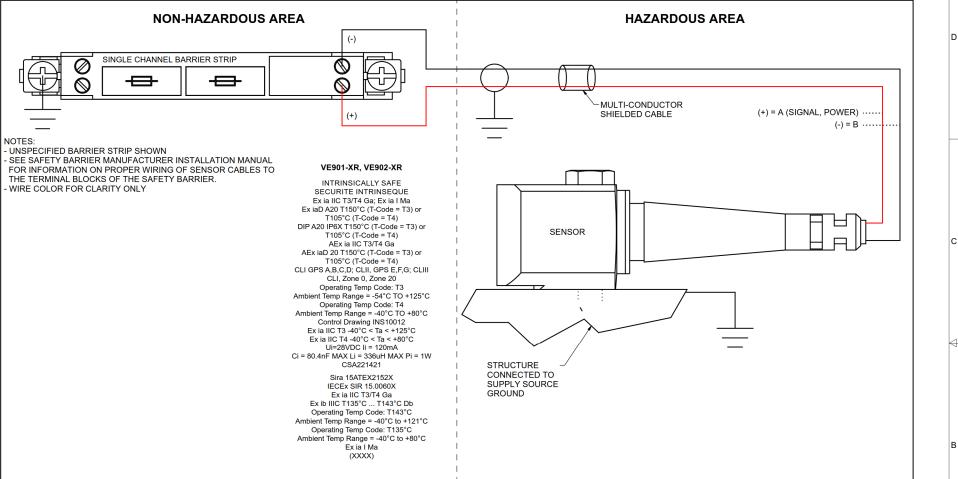


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	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
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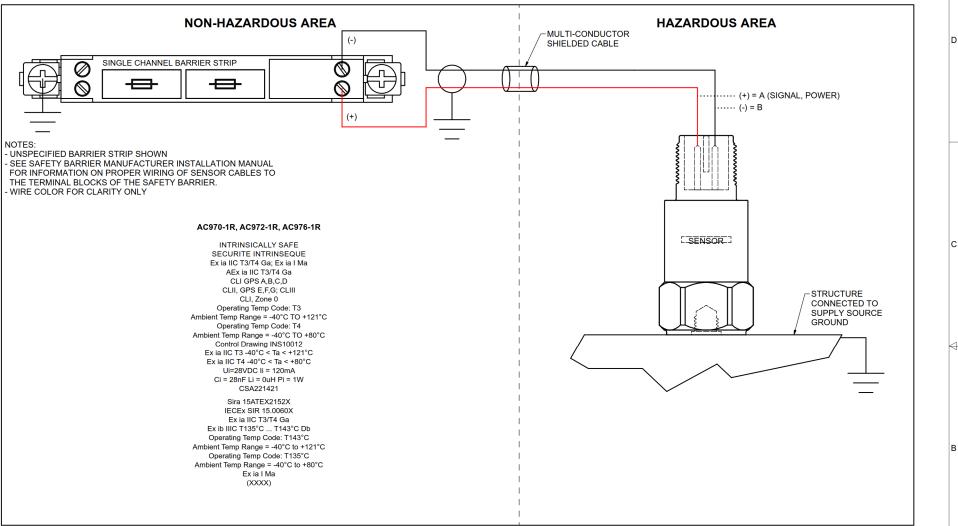
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FORMAT TO BE MORE SPECIFIC, ADDED UKCA EMOVED WT83*, CHANGED TO 120mA CHANNEL BARRIER WIRINGS, UPDATE LAYOUT O ADD MODAL TRIAX VARIATION, MOVE ADDRESS T LOCK, SEPERATED TA & BIAXIAL SENSORS ADDING CTC ADDRESS		CRW CRW CRW/DMG	LC JBD MGS	02/07/2022 02/19/2019 04/18/2017 06/15/2015	JN AJN JLS	02/07/2022 02/19/2019 04/18/2017
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			LC		JN	02/07/2022
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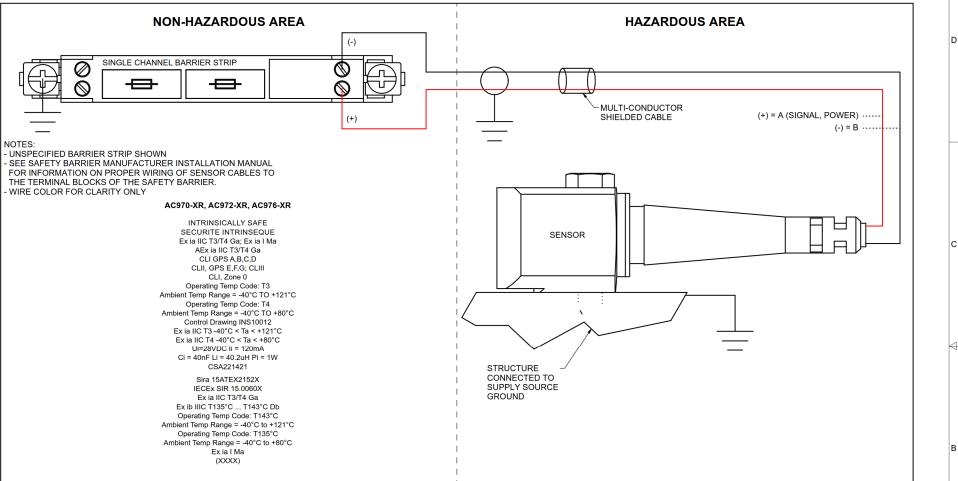
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ı	N	REMOVED CSAE 22UKEX1408X, UPDATED IECEX SIR 15.0060X		СТ	CCM	02/25/2025	CCM	02/25/2025
Α	М	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
	L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
	K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
	- 1	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
	Н	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	DESORPTION ON heh	al <b>f</b> ¢p#f ·	HOESIGNERY!	ifficapproved	ROME/	MFGHPPROYED	COPATE H

	MATERIAL		SIONS ARE IN INCHES	
		TOLERANCE	S (UNLESS SPECIFIED)	
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXX XX X ANGLE	± 0.0005 ± 0.005 ± 0.01 ± 0.1 ± 2° L SHARP EDGES	4
PART #:			SHEET	1
INS10012			11 / 18	
DESCRIPTION:				
INTRINSIC SAFE SENSOR CON	TROL DRAWIN	NG	NOT DRAWN TO SCALE	

PESANDIPHOVED on behalf of the Certification Body/ Notified Body by acheng on 25 Mar 25



### NOTES

- DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL

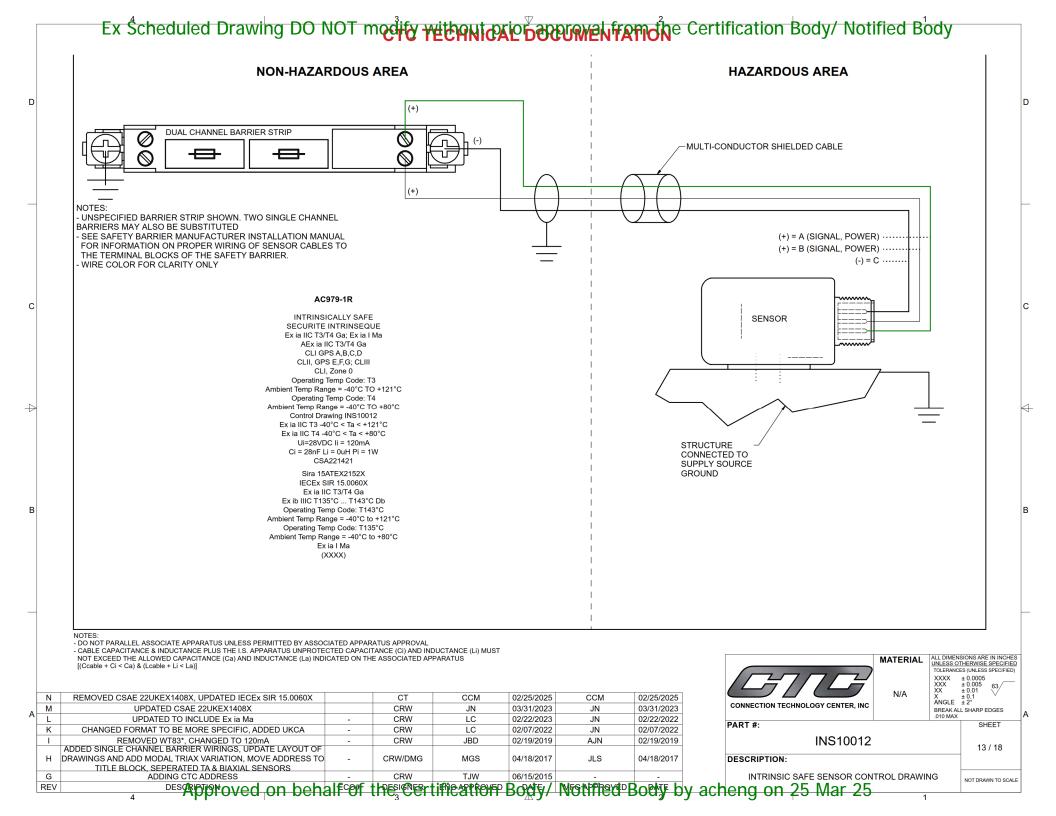
- CABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS

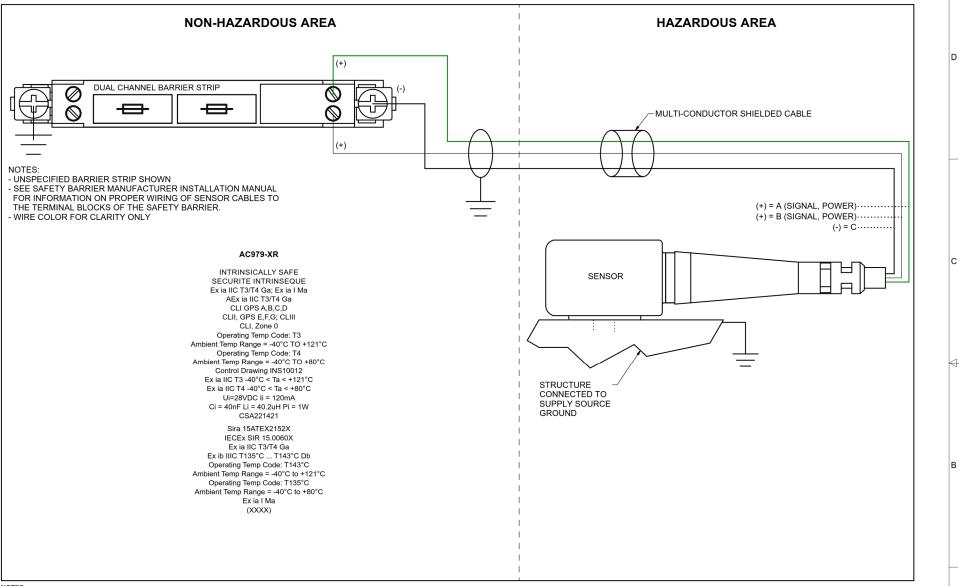
[(Ccable + Ci < Ca) & (Lcable + Li < La)]

L								
Α	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
	- 1	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
		ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF						
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
L		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
	REV	DESORPTION ON heh	al <b>£</b> ⊂p#f †	- PESIGNERY	iffig-appromed	RAME/	MFGHPPROYED	OPATE H

	MATERIAL		SIONS ARE IN INCHES THERWISE SPECIFIED	
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXXX XXX XX X ANGLE	ES (UNLESS SPECIFIED)  ± 0.0005  ± 0.005  ± 0.001  ± 0.01  ± 0.1  £ 2°  L SHARP EDGES	A
PART #:			SHEET	
INS10012	12 / 18			
DESCRIPTION:				
INTRINSIC SAFE SENSOR CON	NOT DRAWN TO SCALE			

— DESAPPHOVED on behalf of the Certification Body/ Notifica Body by acheng on 25 Mar 25





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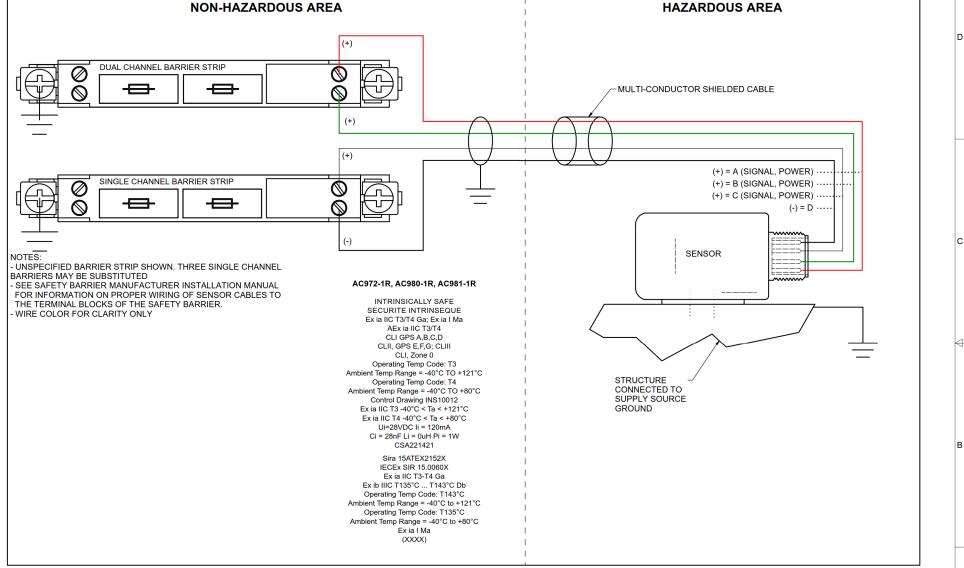
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[(Cable + Ci < Ca) & (Lcable + Li < La)]

L								
Α	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
	- 1	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
		ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF						
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-
	REV	DESORPTION ON heh	al <b>£</b> ⊂p#f †	- PESIGNERY	iffia appromed	RAME/	MFGHPPROYED	OPATE H

	MATERIAL		SIONS ARE IN INCHES THERWISE SPECIFIED	1
CONNECTION TECHNOLOGY CENTER, INC	N/A	TOLERANCE XXXX XXX XX XX ANGLE	± 0.0005 ± 0.0005 ± 0.005 ± 0.001 ± 0.01 ± 0.01 ± 0.1 ± 2° L SHARP EDGES	A
PART #:			SHEET	
INS10012	14 / 18			
INTRINSIC SAFE SENSOR CON	NOT DRAWN TO SCALE			

PESAPPHOVED on behalfor the certification Body Notification Body by acheng on 25 Mar 25

# Ex Scheduled Drawing DO NOT modify yeithant oxion body/ Notified Body **NON-HAZARDOUS AREA HAZARDOUS AREA**



NOTES. DO NOT PARALLEL ASSOCIATE APPARATUS UNLESS PERMITTED BY ASSOCIATED APPARATUS APPROVAL
- OABLE CAPACITANCE & INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (ci) AND INDUCTANCE (Li) MUST
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-	- CRW	TJW			
	0.0111	T 1\A/	06/15/2015		_
NSORS					
E ADDRESS TO -	- CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
TE LAYOUT OF					
۰ -	- CRW	JBD	02/19/2019	AJN	02/19/2019
DED UKCA -	- CRW	LC	02/07/2022	JN	02/07/2022
-	- CRW	LC	02/22/2023	JN	02/22/2022
	CRW	JN	03/31/2023	JN	03/31/2023
SIR 15.0060X	СТ	CCM	02/25/2025	CCM	02/25/2025
	SIR 15.0060X	SIR 15.0060X CT	3IR 15.0060X CT CCM	SIR 15.0060X CT CCM 02/25/2025	SIR 15.0060X CT CCM 02/25/2025 CCM

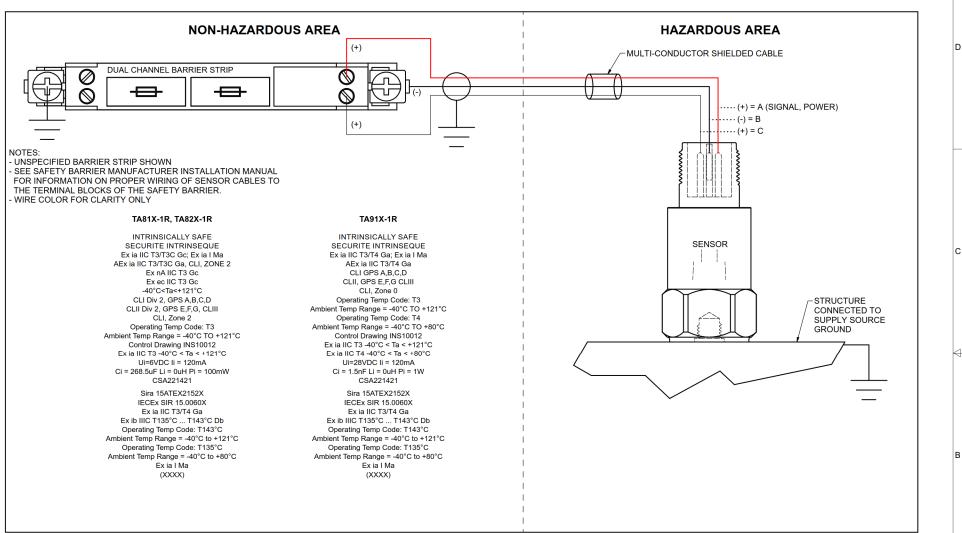
	MATERIAL	UNLESS O	SIONS ARE IN INCHES THERWISE SPECIFIED ES (UNLESS SPECIFIED)	
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXX XX X ANGLE	± 0.0005 ± 0.005 ± 0.01 ± 0.01 ± 2° L SHARP EDGES	1
PART #:			SHEET	
INS10012	15 / 18			
INTRINSIC SAFE SENSOR CON	NOT DRAWN TO SCALE			

PESAPPHOVED on behalfor the Certification Body/ Notified Body by acheng on 25 Mar 25

### Ex Scheduled Drawing DO NOT modify without oxion approver from The Certification Body/ Notified Body **NON-HAZARDOUS AREA HAZARDOUS AREA** l٦ **DUAL CHANNEL BARRIER STRIP** MULTI-CONDUCTOR SHIELDED CABLE (+) SINGLE CHANNEL BARRIER STRIP (+) = A (SIGNAL, POWER) --(+) = B (SIGNAL, POWER)..... (+) = C (SIGNAL, POWER)..... (-) = D.... (-) **SENSOR** NOTES: - UNSPECIFIED BARRIER STRIP SHOWN. THREE SINGLE CHANNEL BARRIERS MAY BE SUBTITUTED AC972-XR, AC980-XR, AC981-XR - SEE SAFETY BARRIER MANUFACTURER INSTALLATION MANUAL FOR INFORMATION ON PROPER WIRING OF SENSOR CABLES TO INTRINSICALLY SAFE THE TERMINAL BLOCKS OF THE SAFETY BARRIER. SECURITE INTRINSEQUE - WIRE COLOR FOR CLARITY ONLY Ex ia IIC T3/T4 Ga; Ex ia I Ma AEx ia IIC T3/T4 CLI GPS A,B,C,D CLII, GPS E,F,G; CLIII CLL Zone 0 STRUCTURE Operating Temp Code: T3 CONNECTED TO Ambient Temp Range = -40°C TO +121°C SUPPLY SOURCE Operating Temp Code: T4 GROUND 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 = 40nF Li = 40.2uH 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 - 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 ASSOCIÁTED APPARATUS ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED MATERIAL TOLERANCES (UNLESS SPECIFIED) XXXX XXX XX ± 0.0005 XXX ± 0.0005 XX ± 0.01 X ± 0.1 ANGLE ± 2° СТ ССМ 02/25/2025 N REMOVED CSAE 22UKEX1408X, UPDATED IECEx SIR 15.0060X 02/25/2025 CCM CONNECTION TECHNOLOGY CENTER, INC 03/31/2023 UPDATED CSAE 22UKEX1408X CRW 03/31/2023 M JN JN BREAK ALL SHARP EDGES .010 MAX UPDATED TO INCLUDE Ex ia Ma CRW 02/22/2023 JN 02/22/2022 1 I C PART #: SHEET CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA CRW LC 02/07/2022 JN 02/07/2022 K REMOVED WT83\*, CHANGED TO 120mA CRW JBD 02/19/2019 AJN 02/19/2019 INS10012 ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF 16 / 18 DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO CRW/DMG MGS 04/18/2017 04/18/2017 DESCRIPTION: TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS CRW TJW 06/15/2015 INTRINSIC SAFE SENSOR CONTROL DRAWING G ADDING CTC ADDRESS NOT DRAWN TO SCALE

DESAPPROVED on behalf of the Certification Body Notified Body by acheng on 25 Mar 25

REV

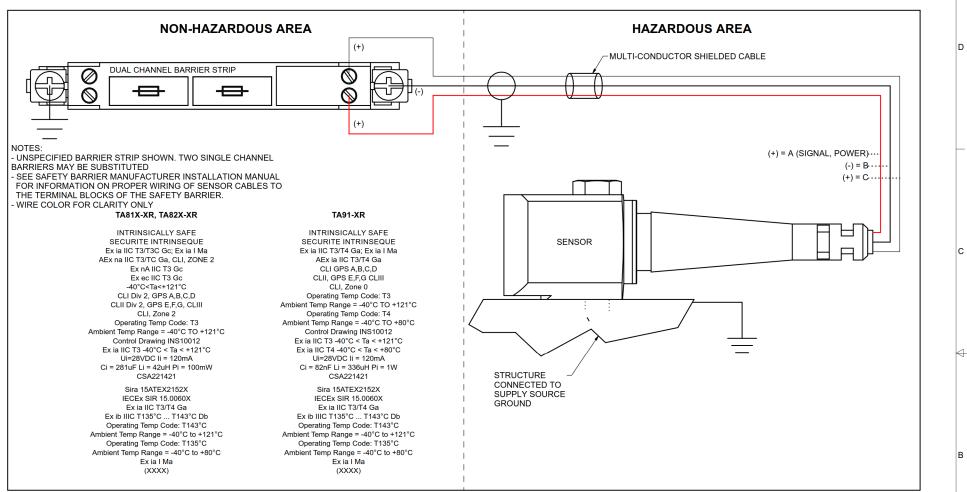


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	N	REMOVED CSAE 22UKEX1408X, UPDATED IECEx SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025	
,	М	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023	CONNECTION TECHNOLOGY CENTER, INC
A	L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022	DADT #
	K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022	PART #:
	- 1	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019	INS10012
		ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF							
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017	DESCRIPTION:
		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS							
	G	ADDING CTC ADDRESS	-	CRW	TJW	06/15/2015	-	-	INTRINSIC SAFE SENSOR CONTR
	REV	DESARDIPHOVED on behavior	al£¢#f	+ HOESIGNERT	ifficantroysp	RANTE/	MFGAPPROYED	OPATE H	y acheng on 25 Mar 25
_		Approved on bene	<del>un or</del>	the och	<del>meation i</del>	<del>DOM YI</del>	WOUTHCOLL	<del>ouy b</del>	y acricing on 20 Mai 20

	MATERIAL	UNLESS O	SIONS ARE IN INCHES	1
CONNECTION TECHNOLOGY CENTER, INC	N/A	XXXX XXX XX X ANGLE	ES (UNLESS SPECIFIED) ± 0.0005 ± 0.005 ± 0.01 ± 0.01 ± 2° L SHARP EDGES	A
PART #:			SHEET	1
INS10012	17 / 18			
DESCRIPTION.				
INTRINSIC SAFE SENSOR CON	NOT DRAWN TO SCALE			



### NOTES

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

ŀ	DEV	DECORPTION	- LECONE	LDECK TO.	ING ADADOMED I	DATE. /	MICE A b6boydto F	- DATE I-
	G	ADDING CTC ADDRESS	_	CRW	TJW	06/15/2015	_	-
		TITLE BLOCK, SEPERATED TA & BIAXIAL SENSORS						
	Н	DRAWINGS AND ADD MODAL TRIAX VARIATION, MOVE ADDRESS TO	-	CRW/DMG	MGS	04/18/2017	JLS	04/18/2017
Ī		ADDED SINGLE CHANNEL BARRIER WIRINGS, UPDATE LAYOUT OF						
	- 1	REMOVED WT83*, CHANGED TO 120mA	-	CRW	JBD	02/19/2019	AJN	02/19/2019
	K	CHANGED FORMAT TO BE MORE SPECIFIC, ADDED UKCA	-	CRW	LC	02/07/2022	JN	02/07/2022
Α	L	UPDATED TO INCLUDE Ex ia Ma	-	CRW	LC	02/22/2023	JN	02/22/2022
	М	UPDATED CSAE 22UKEX1408X		CRW	JN	03/31/2023	JN	03/31/2023
	N	REMOVED CSAE 22UKEX1408X, UPDATED IECEx SIR 15.0060X		CT	CCM	02/25/2025	CCM	02/25/2025

	MATERIAL		SIONS ARE IN INCHES THERWISE SPECIFIED	
CONNECTION TECHNOLOGY CENTER, INC	N/A	TOLERANCE XXXX XXX XX XX X ANGLE	± 0.0005 ± 0.005 ± 0.005 ± 0.01 ± 0.1	A
PART #:			SHEET	1
INS10012	18 / 18			
DESCRIPTION:				
INTRINSIC SAFE SENSOR CON	NOT DRAWN TO SCALE			

— PES সংস্কৃতি Poved on behalf of the © Pertification Body/ Notified Body by achieng on 25 Mar 25