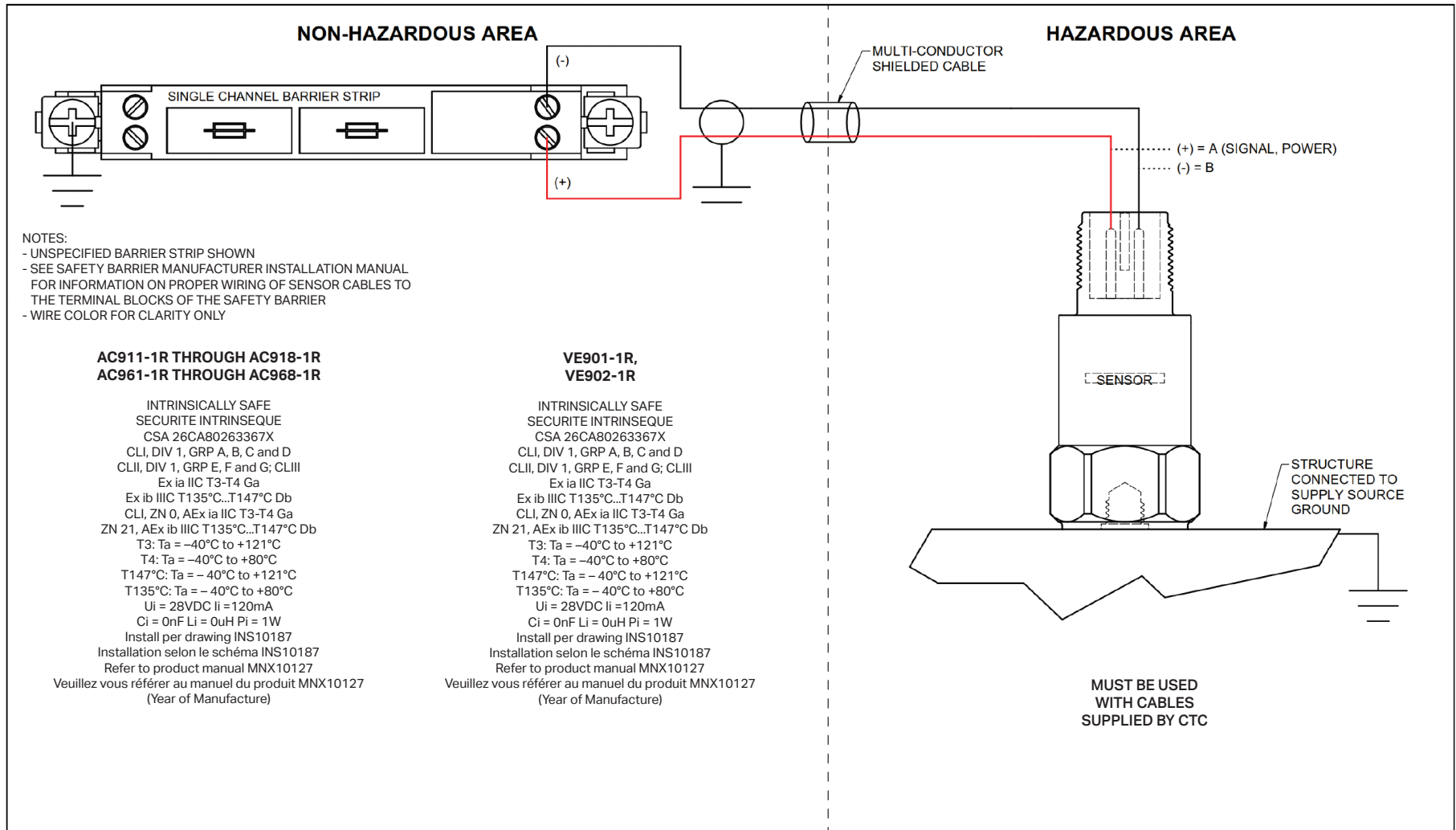


CTC TECHNICAL DOCUMENTATION



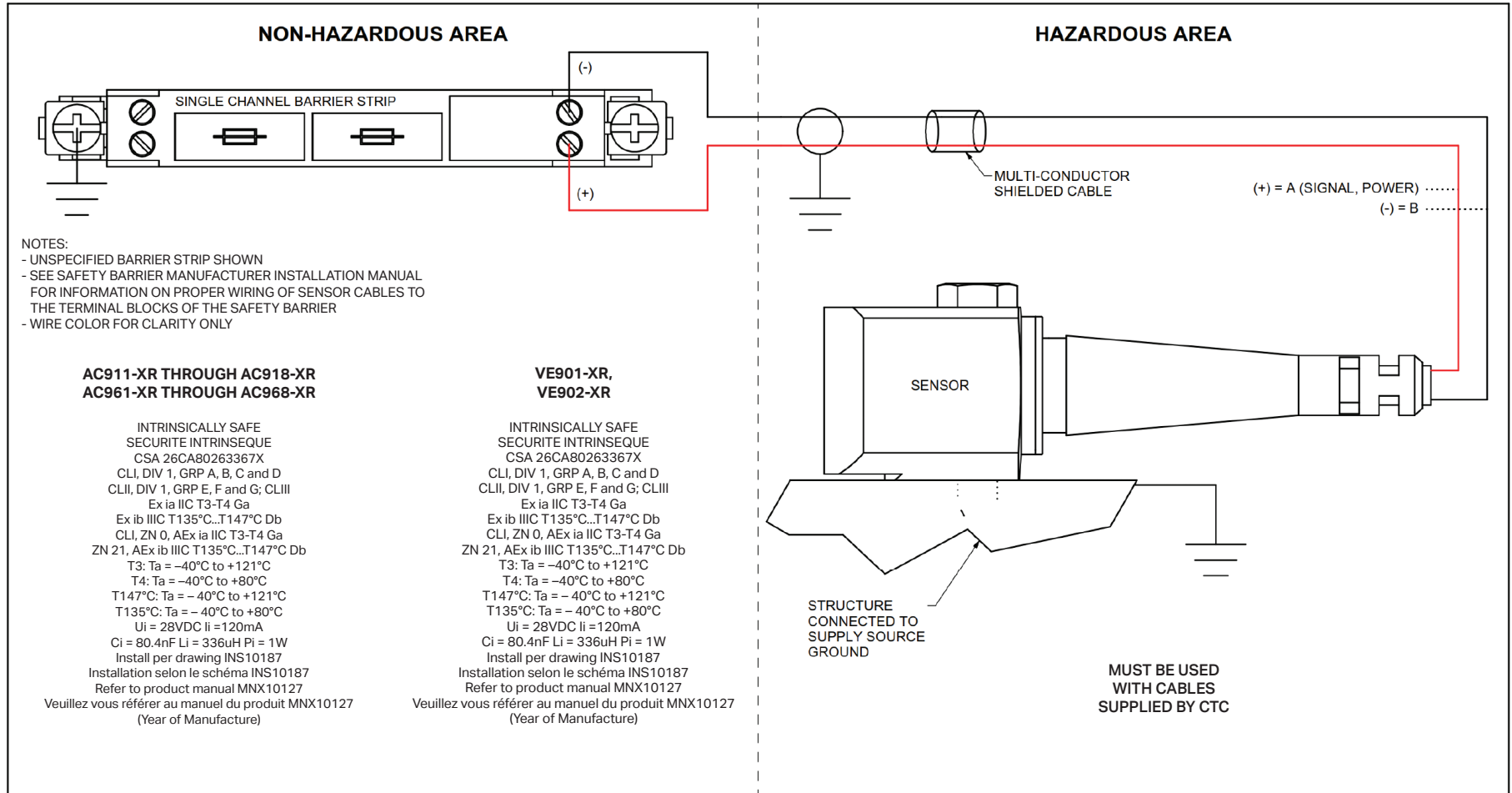
NOTES:

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- 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]]

 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	
PART #:		SHEET
INS10187		1/12
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION

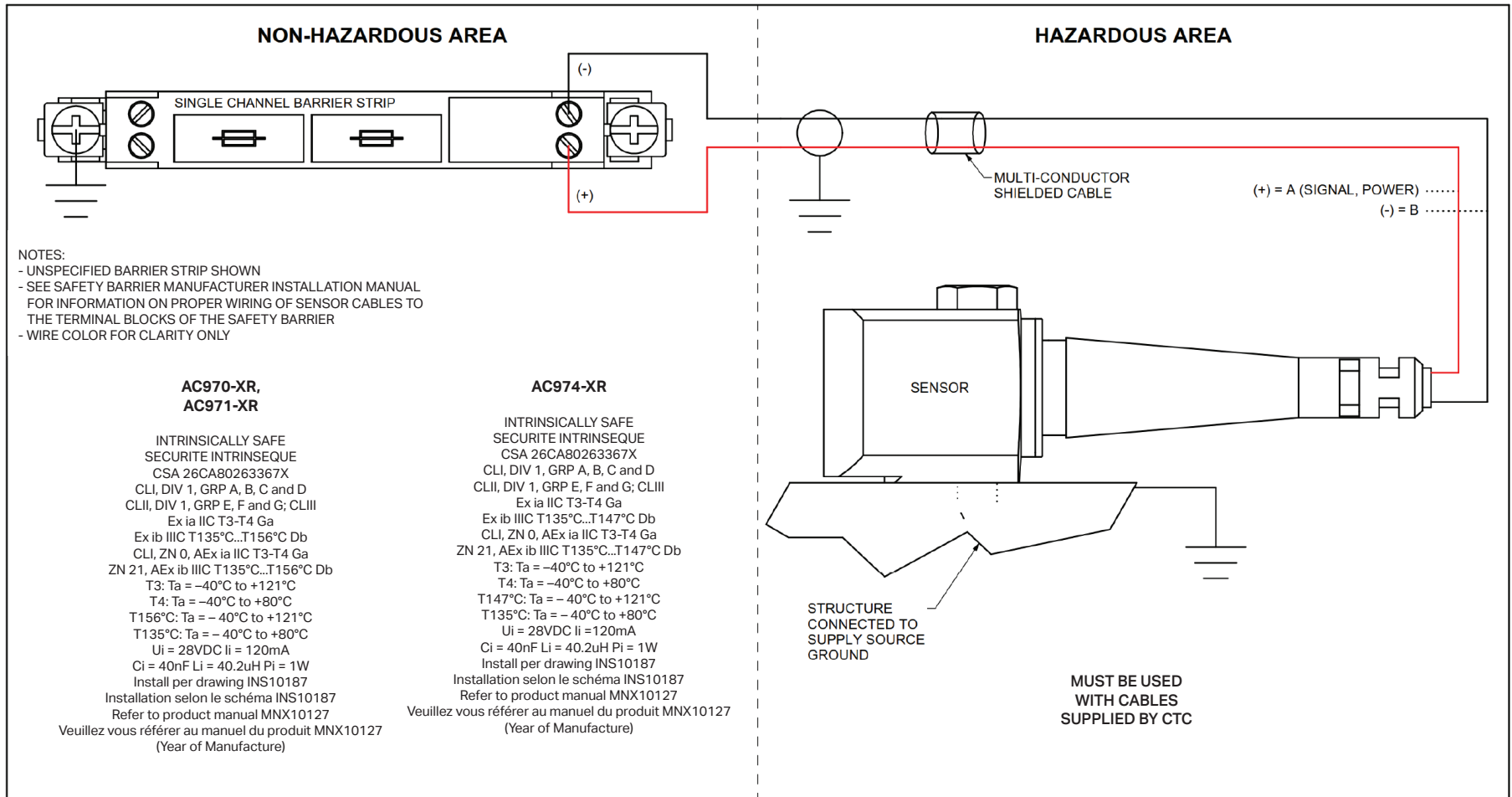


NOTES:
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 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	N/A	
PART #:		SHEET
INS10187		3/12
DESCRIPTION:		NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING		

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION



NOTES:
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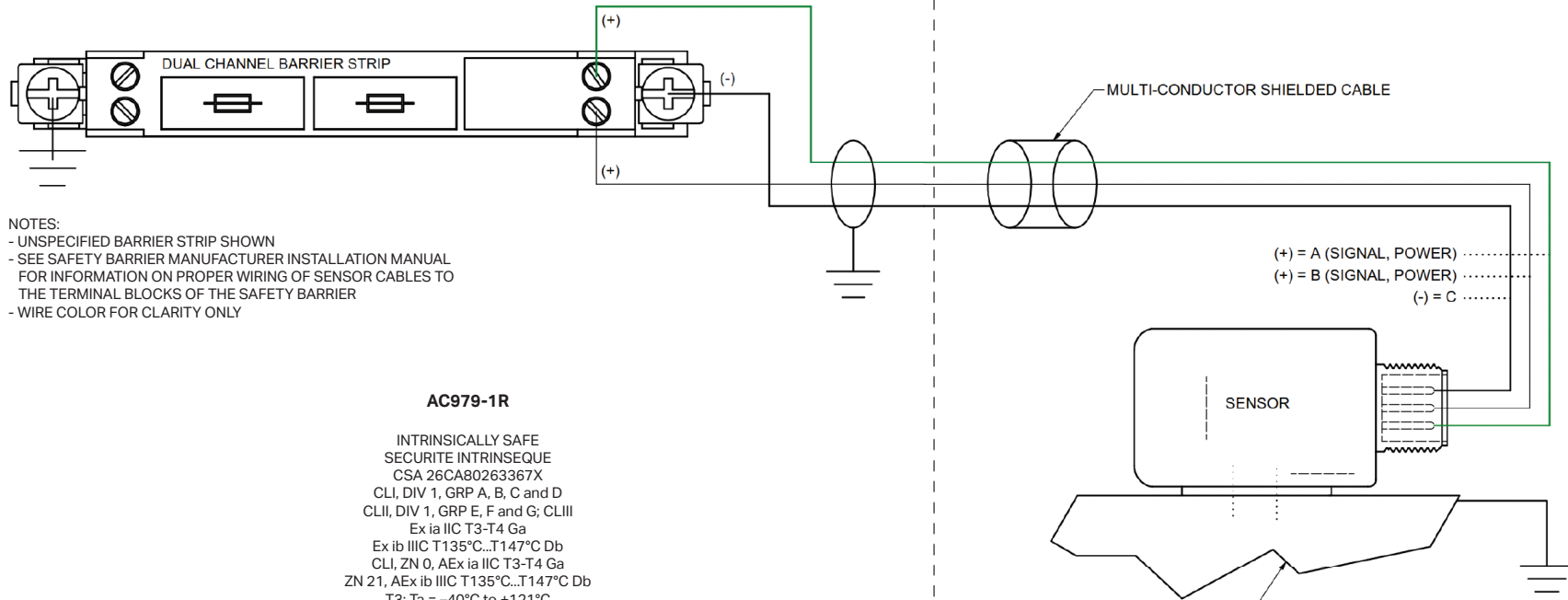
 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL N/A	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	PART #: INS10187	
DESCRIPTION: INTRINSIC SAFE SENSOR CONTROL DRAWING		SHEET 6/12 NOT DRAWN TO SCALE

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION

NON-HAZARDOUS AREA

HAZARDOUS AREA



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

AC979-1R

INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 CSA 26CA80263367X
 CLI, DIV 1, GRP A, B, C and D
 CLII, DIV 1, GRP E, F and G; CLIII
 Ex ia IIC T3-T4 Ga
 Ex ib IIC T135°C..T147°C Db
 CLI, ZN 0, AEx ia IIC T3-T4 Ga
 ZN 21, AEx ib IIC T135°C..T147°C Db
 T3: Ta = -40°C to +121°C
 T4: Ta = -40°C to +80°C
 T147°C: Ta = -40°C to +121°C
 T135°C: Ta = -40°C to +80°C
 Ui = 28VDC li = 120mA
 Ci = 28nF Li = 0uH Pi = 1W
 Install per drawing INS10187
 Installation selon le schéma INS10187
 Refer to product manual MNX10127
 Veuillez vous référer au manuel du produit MNX10127
 (Year of Manufacture)

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

STRUCTURE
 CONNECTED TO
 SUPPLY SOURCE
 GROUND

**MUST BE USED
 WITH CABLES
 SUPPLIED BY CTC**

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

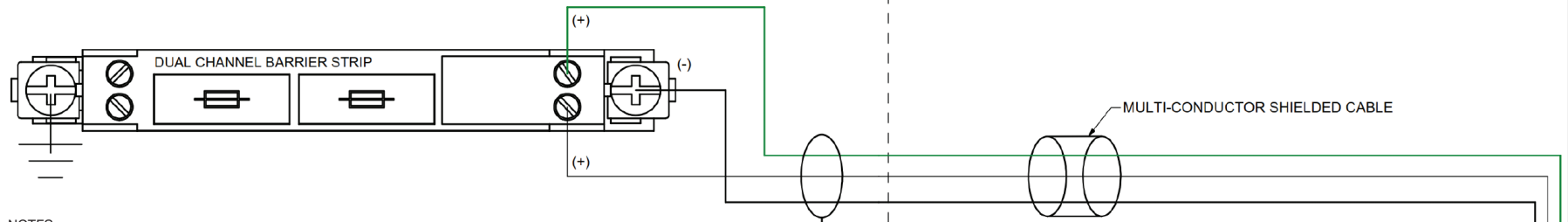
 CONNECTION TECHNOLOGY CENTER, INC	MATERIAL N/A	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES (UNLESS SPECIFIED) XXXX ± 0.0005 XXX ± 0.005 XX ± 0.01 X ± 0.1 ANGLE ± 2° BREAK ALL SHARP EDGES .010 MAX
	PART #: SHEET <div style="text-align: center; font-size: 1.2em; font-weight: bold;">INS10187</div> DESCRIPTION: 7/12 INTRINSIC SAFE SENSOR CONTROL DRAWING NOT DRAWN TO SCALE	

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION

NON-HAZARDOUS AREA

HAZARDOUS AREA

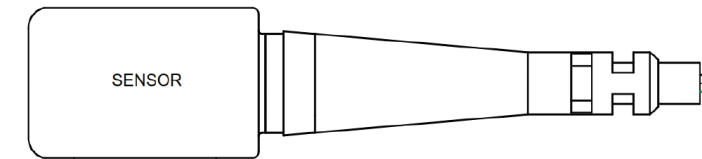


NOTES:
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 - WIRE COLOR FOR CLARITY ONLY

AC979-XR

INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 CSA 26CA80263367X
 CLI, DIV 1, GRP A, B, C and D
 CLII, DIV 1, GRP E, F and G; CLIII
 Ex ia IIC T3-T4 Ga
 Ex ib IIC T135°C..T147°C Db
 CL1, ZN 0, AEx ia IIC T3-T4 Ga
 ZN 21, AEx ib IIC T135°C..T147°C Db
 T3: Ta = -40°C to +121°C
 T4: Ta = -40°C to +80°C
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 Ui = 28VDC li = 120mA
 Ci = 40nF Li = 40.2uH Pi = 1W
 Install per drawing INS10187
 Installation selon le schéma INS10187
 Refer to product manual MNX10127
 Veuillez vous référer au manuel du produit MNX10127
 (Year of Manufacture)

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



STRUCTURE
 CONNECTED TO
 SUPPLY SOURCE
 GROUND

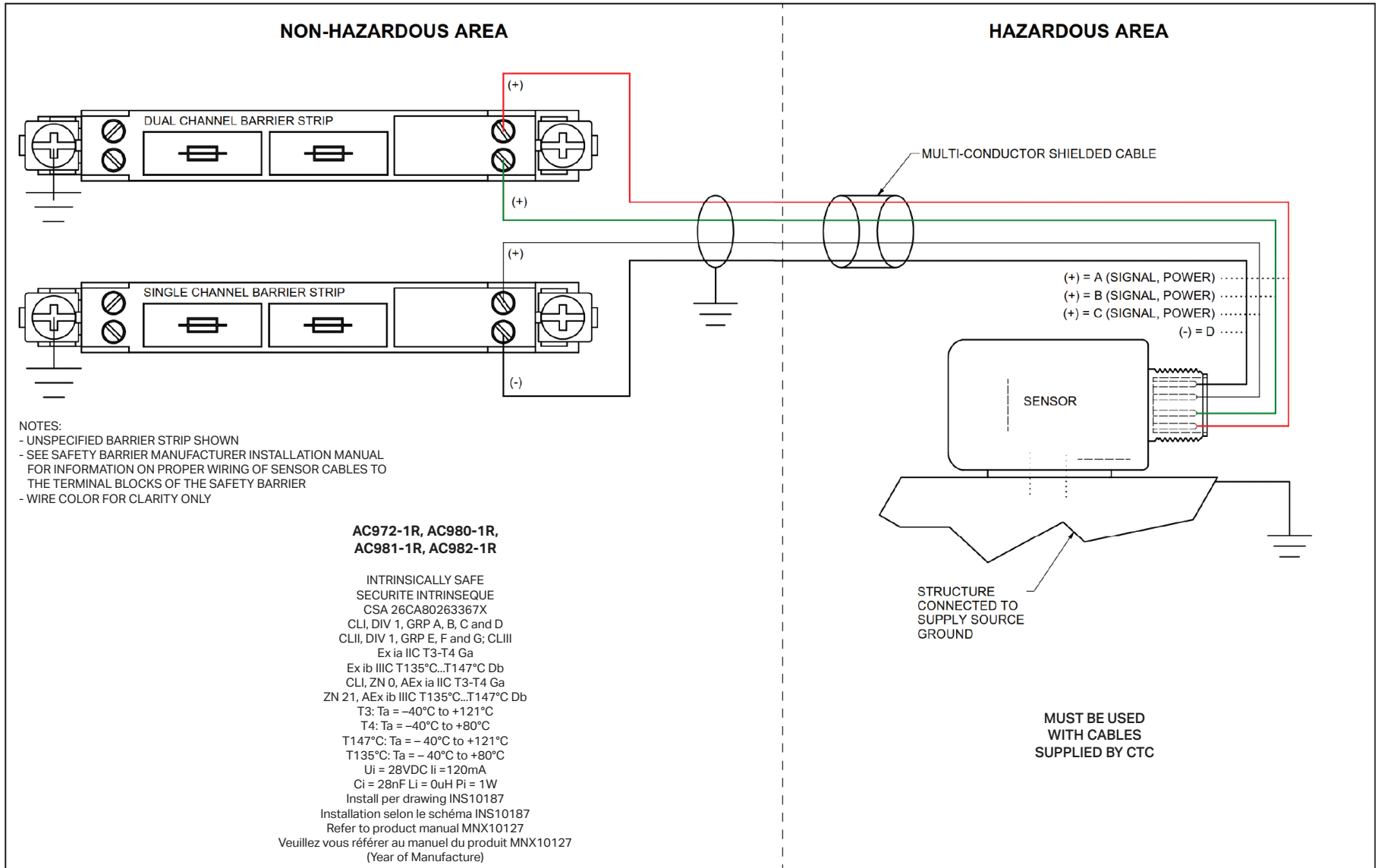
**MUST BE USED
 WITH CABLES
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NOTES:
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 [(Cable + Ci < Ca) & (Lcable + Li < La)]

 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 #: SHEET <div style="text-align: center; font-size: 1.2em; font-weight: bold;">INS10187</div> DESCRIPTION: 8/12 INTRINSIC SAFE SENSOR CONTROL DRAWING NOT DRAWN TO SCALE	

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION



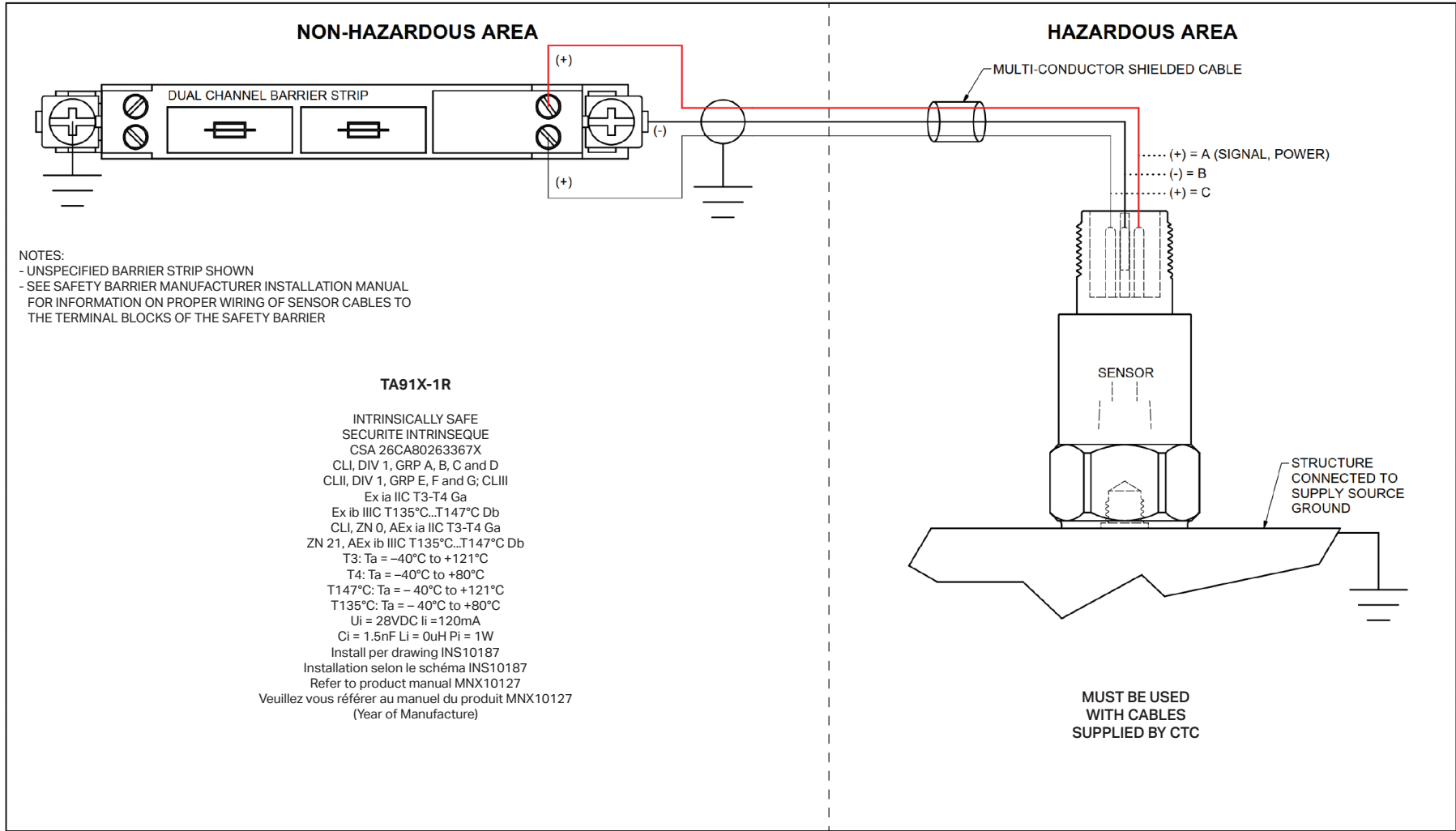
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 [(Cable + Ci < Ca) & (Lcable + Li < La)]

 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	

PART #:	SHEET
INS10187	9/12
DESCRIPTION:	NOT DRAWN TO SCALE
INTRINSIC SAFE SENSOR CONTROL DRAWING	

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION



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

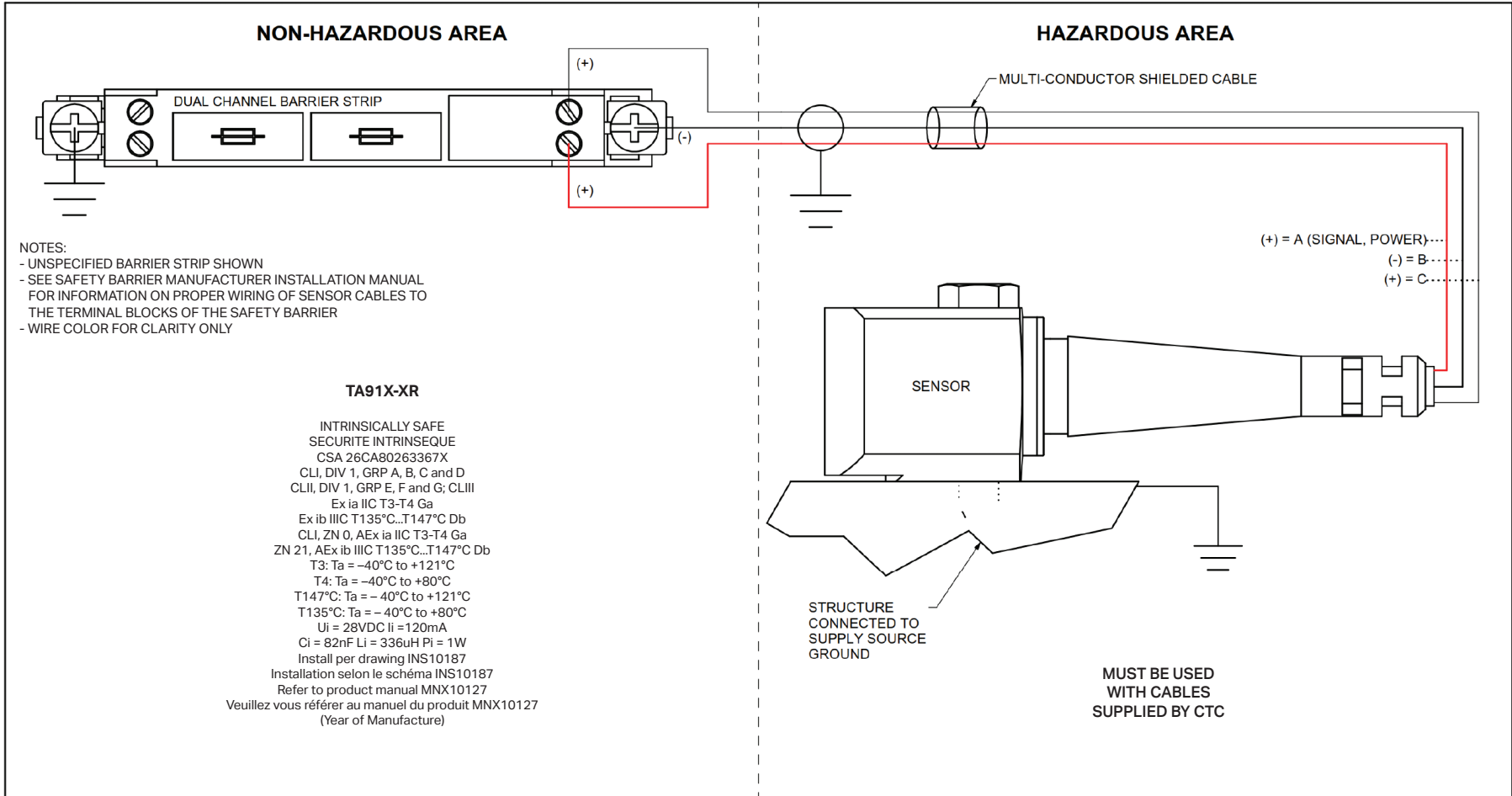


MATERIAL	N/A	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
		TOLERANCES (UNLESS SPECIFIED)
XXXX	± 0.0005	
XXX	± 0.005	
XX	± 0.01	
X	± 0.1	
ANGLE	± 2°	BREAK ALL SHARP EDGES .010 MAX

PART #:	INS10187	SHEET
DESCRIPTION:	INTRINSIC SAFE SENSOR CONTROL DRAWING	11/12
		NOT DRAWN TO SCALE

A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

CTC TECHNICAL DOCUMENTATION



NOTES:
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 - WIRE COLOR FOR CLARITY ONLY

TA91X-XR

INTRINSICALLY SAFE
 SECURITE INTRINSEQUE
 CSA 26CA80263367X
 CLI, DIV 1, GRP A, B, C and D
 CLII, DIV 1, GRP E, F and G; CLIII
 Ex ia IIC T3-T4 Ga
 Ex ib IIIC T135°C...T147°C Db
 CLI, ZN 0, AEx ia IIC T3-T4 Ga
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 Ui = 28VDC Ii = 120mA
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 Install per drawing INS10187
 Installation selon le schéma INS10187
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	PART #: <div style="text-align: center; font-size: 1.2em; font-weight: bold;">INS10187</div>	
DESCRIPTION: INTRINSIC SAFE SENSOR CONTROL DRAWING		SHEET 12/12 NOT DRAWN TO SCALE

REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE
A	INTRINSIC SAFE SENSOR CONTROL DRAWING - INITIAL RELEASE	-	NM	CCM	10/08/2025	CCM	10/08/2025