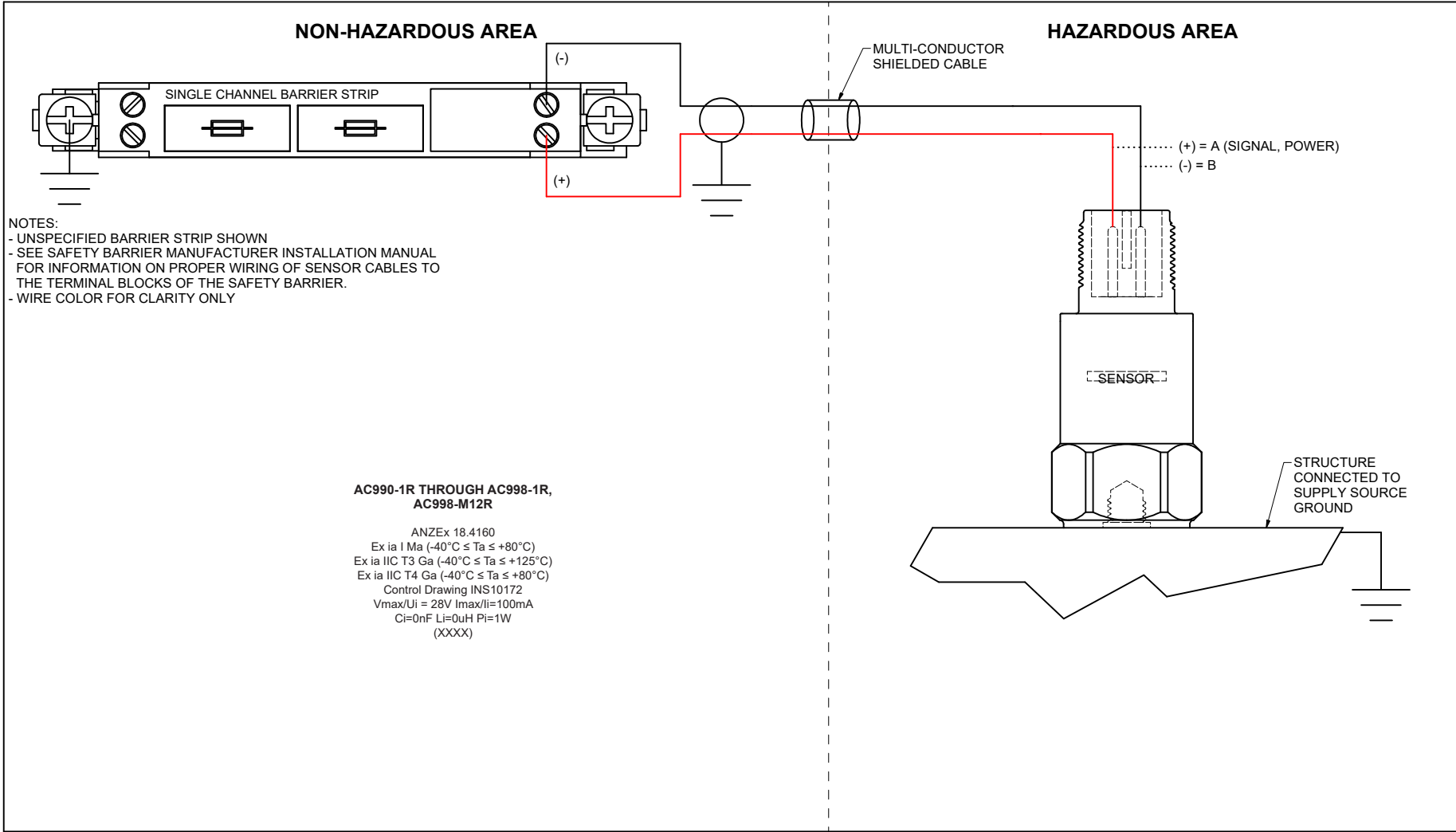


CTC TECHNICAL DOCUMENTATION



**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)]
- T3 MARKING DENOTES MANUFACTURE FOR AN AMBIENT TEMPERATURE OF 125°C USING ECCOBOND 104 A/B, AND CORRECT CABLES ON INTEGRAL VERSIONS

TESTING AND CERTIFICATION

ANZEx 18.4160-1

This document is approved as specified in the listed certificate

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

63

PART #:

INS10172

DESCRIPTION:

INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET

1 / 2

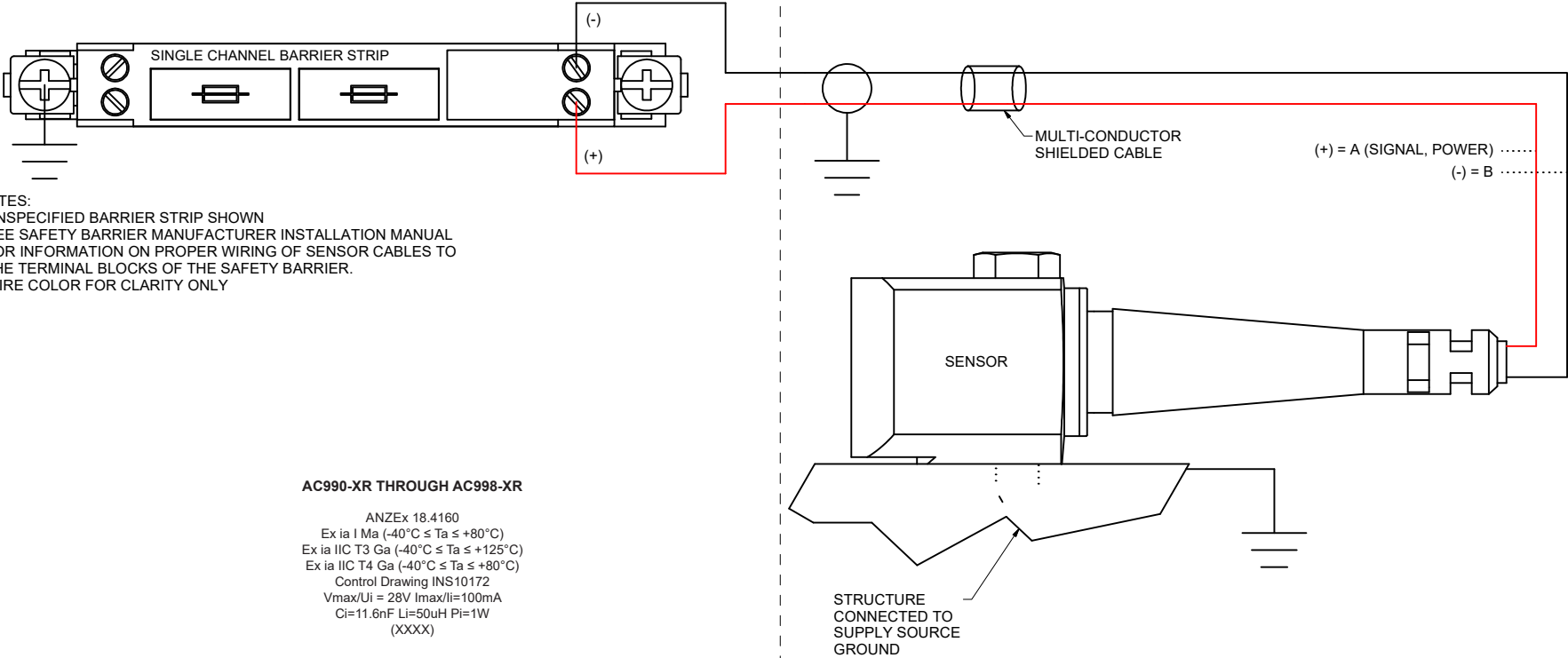
NOT DRAWN TO SCALE

A	CREATED NEW DRAWING FOR ANZEx SENSORS FROM INS10012	-	CT	CCM	04/08/2025	-	-
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

AC990-XR THROUGH AC998-XR  
ANZEx 18.4160  
Ex ia I Ma (-40°C ≤ Ta ≤ +80°C)  
Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +125°C)  
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +80°C)  
Control Drawing INS10172  
Vmax/Ui = 28V Imax/li=100mA  
Ci=11.6nF Li=50uH Pi=1W  
(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  
- T3 MARKING DENOTES MANUFACTURE FOR AN AMBIENT TEMPERATURE OF 125°C USING ECCOBOND 104 A/B, AND CORRECT CABLES ON INTEGRAL VERSIONS

Ex

TESTING AND CERTIFICATION

ANZEx 18.4160-1

This document is approved as specified in the listed certificate

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

63

✓

PART #:

INS10172

DESCRIPTION:

INTRINSIC SAFE SENSOR CONTROL DRAWING

SHEET

2 / 2

NOT DRAWN TO SCALE

A	CREATED NEW DRAWING FOR ANZEx SENSORS FROM INS10012	-	CT	CCM	04/08/2025	-	-
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE