

NON-HAZARDOUS AREA

TERMINATION HARDWARE

TYPICAL TERMINATION HARDWARE

- JUNCTION BOX
- VIBRATION TRANSMITTER/SIGNAL CONDITIONER
- ONLINE SYSTEM
- PLC
- OTHER DATA ACQUISITION SYSTEM

AC92*/LP82*/LP92* Series

Ex nA IIC T3 / T4
 Ex ID A22, IP6X T150°C (T-Code=T3) / T105°C (T-Code=T4)
 DIP A22 IP6X T150°C (T-Code=T3) / T105°C (T-Code=T4)
 AEx nA IIC T3 / T4, CLI, ZONE 2
 AEx ID 22, IP6X T150°C (T-Code=T3) / T105°C (T-Code=T4)
 CLI Div 2, GPS A,B,C,D
 CLII Div 2, GPS F,G, CLIII
 Vmax=28VDC Imax=100mA
 CSA 221421
 KEMA 04ATEX1066

AC92* Series - Temperature Code: T3
 ambient temperature range = -54°C to +125°C

LP82* and LP92* Series - Temperature Code: T4
 ambient temperature range = -40°C to +80°C

AC93*/LP83*/LP93* Low Capacitance Series

Ex nA IIC T3 / T4
 Ex ID A22 IP6X T150°C (T-Code=T3) or T105°C (T-Code=T4)
 DIP A22 IP6X T150°C (T-Code=T3) or T105°C (T-Code=T4)
 AEx nA IIC T3 / T4, CLI, ZONE 2
 AEx ID 22 IP6X T150°C (T-Code=T3) or T105°C (T-Code=T4)
 CLI Div 2, GPS A,B,C,D
 CLII Div 2, GPS F,G, CLIII
 Vmax=28VDC Imax=100mA
 CSA 221421
 KEMA 04ATEX1066

AC93* Series - Temperature Code: T3
 ambient temperature range = -40°C to +125°C

AC93*, LP83* and LP93* Series - Temperature Code: T4
 ambient temperature range = -40°C to +80°C

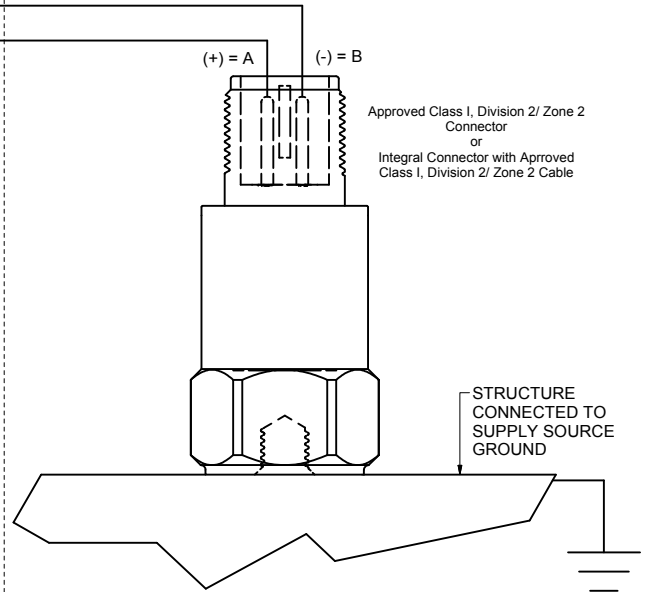
(AC94*, AC95*, TA93*)

Ex ia IIC T3/T3C Gc
 Ex ID A22, IP6X T150°C (T-Code = T3) or T105°C (T-Code = T3C)
 DIP A22 IP6X T150°C (T-Code = T3) or T105°C (T-Code = T3C)
 AEx nA IIC T3/T3C, Cl1, ZONE 2
 AEx ID 22 T150°C (T-Code = T3) or T105°C (T-Code=T3C)
 CLI Div 2, GPS A,B,C,D
 CLII Div 2, GPS E,F,G, CLIII
 CLI, Zone

Operating Temp Code: T3
 Ambient Temp Range = -40°C to +121°C
 Control Drawing INS10035
 Ex ia IIC T3 -40°C < Ta< +121°C
 Ui=28VDC Ii = 100mA
 Ci = 0µf Li = 51uH Pi = 100 mW
 CSA 221421

CLASS I DIV 2 AREA
(ZONE 2)

NOTE: Class I, Division 2 / Ex nA IIC when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC. European installation shall conform to IEC60079-14 or the applicable local installation code. Suitability of final installation is to be determined by the authority having jurisdiction.



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

PART #:	INS10035	SHEET
DESCRIPTION:	CLASS 1, DIV 2 CONTROL DRAWING	1 / 3
		NOT DRAWN TO SCALE

REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE
B	ADDED DUST/LOW CAPACITANCE	-	DMG	SAS	12/17/2009	-	-
A	ADDED ZONE AND INSTALLATION REQUIREMENTS	-	BPS	SS	3/26/2007	-	-

NON-HAZARDOUS AREA

CLASS I DIV 2 AREA
(ZONE 2)

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(AC94*, AC95*, TA93*)

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Ex tD A22, IP6X T150°C (T-Code = T3) or T105°C (T-Code = T3C)
DIP A22 IP6X T150°C (T-Code = T3) or T105°C (T-Code = T3C)
AEx nA IIC T3/T3C, CH, ZONE 2
AEx tD 22 T150°C (T-Code = T3) or T105°C (T-Code=T3C)
CL I Div 2, GPS A,B,C,D
CL II Div 2, GPS E,F,G, CL III
CL I, Zone
Operating Temp Code: T3
Ambient Temp Range = -40°C to +121°C
Control Drawing INS10035
Ex ia IIC T3 -40°C < Ta< +121°C
Ui=28VDC li = 100mA
Ci = 0µf Li = 51uH Pi = 100 mW
CSA 221421

(+) = A Approved Class I, Division 2/ Zone 2 Connector
(-) = B or
(+) = C Integral Connector with Approved Class I, Division 2/ Zone 2 Cable

STRUCTURE
CONNECTED TO
SUPPLY SOURCE
GROUND



CONNECTION TECHNOLOGY CENTER, INC

MATERIAL

-

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED
TOLERANCES (UNLESS SPECIFIED)
XXX ± 0.005
XX ± 0.01 63/
X ± 0.1
ANGLE ± 2°
BREAK ALL SHARP EDGES
.010 MAX

PART #:

INS10035

SHEET

2 / 3

DESCRIPTION:

CLASS 1, DIV 2 CONTROL DRAWING

NOT DRAWN TO SCALE

B	ADDED DUST/LOW CAPACITANCE	-	DMG	SAS	12/17/2009	-	-
A	ADDED ZONE AND INSTALLATION REQUIREMENTS	-	BPS	SS	3/26/2007	-	-
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE

NON-HAZARDOUS AREA

CLASS I DIV 2 AREA
(ZONE 2)

NOTE: Class I, Division 2 / Ex nA IIC when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC. European installation shall conform to IEC60079-14 or the applicable local installation code. Suitability of final installation is to be determined by the authority having jurisdiction.

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- JUNCTION BOX
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- ONLINE SYSTEM
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Approved Class I, Division 2/ Zone 2
Connector
or
Integral Connector with Approved
Class I, Division 2/ Zone 2 Cable

(+) = A
(-) = B
(+) = C
(+) = D

STRUCTURE
CONNECTED TO
SUPPLY SOURCE
GROUND

(AC94*, AC95*, TA93*)

Ex ia IIC T3/T3C Gc.
Ex tD A22, IP6X T150°C (T-Code = T3) or T105°C (T-Code = T3C)
DIP A22 IP6X T150°C (T-Code = T3) or T105°C (T-Code = T3C)
AEx nA IIC T3/T3C, CL1, ZONE 2
AEx tD 22 T150°C (T-Code = T3) or T105°C (T-Code=T3C)
CL1 Div 2, GPS A,B,C,D
CLII Div 2, GPS E,F,G, CLIII
CL1, Zone
Operating Temp Code: T3
Ambient Temp Range = -40°C to +121°C
Control Drawing INS10035
Ex ia IIC T3 -40°C < Ta< +121°C
Ui=28VDC Ii = 100mA
Ci = 0µf Li = 51uH Pi = 100 mW
CSA 221421



CONNECTION TECHNOLOGY CENTER, INC

MATERIAL

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

PART #:

INS10035

SHEET

3 / 3

DESCRIPTION:

CLASS 1, DIV 2 CONTROL DRAWING

NOT DRAWN TO SCALE

B	ADDED DUST/LOW CAPACITANCE	-	DMG	SAS	12/17/2009	-	-
A	ADDED ZONE AND INSTALLATION REQUIREMENTS	-	BPS	SS	3/26/2007	-	-
REV	DESCRIPTION	ECO#	DESIGNER	ENG APPROVED	DATE	MFG APPROVED	DATE