| EXCEPT THOSE REQUIRING ITS USE FOR EMERSON AUTHORIZED PURPOSES. | |
|---|--|
|---|--|

CSI Model 9420 Rev4/Rev5 Wireless Vibration Transmitter: <u>Power Options:</u> Battery Pack 701PBKKF (Part number MHM-89002) or A0701PBU (Part number MHM-89004) Power Adapter A9000Px - install per control drawing D25790.

NOTE: Approved power options may be replaced in approved hazardous locations per this drawing.

CSA-c/us 12CA2493476X

Class I Division 1 Groups C & D Class I Zone 0 Group IIB Ex/AEx ia IIB T4 -40°C \leq Ta \leq 85°C, -20°C \leq Ta \leq 80°C w/LCD

Class I Division 2 Groups A, B, C & D Class I Zone 2 AEx ic IIC Gc Ex ic IIC Gc T4 (135°C), -40°C \leq Ta \leq 85°C, -20°C \leq Ta \leq 80°C w/LCD; Type 4X Enclosure

SIRA/ATEX 15ATEX4237X

 $\overline{\boldsymbol{\zeta}}$ $\overline{\boldsymbol{\zeta}}$ $\overline{\boldsymbol{\zeta}}$ $\overline{\boldsymbol{\chi}}$ II 3 G Ex ic IIC T4 Gc T4 (135°C), -40°C \leq Ta \leq 85°C, -20°C \leq Ta \leq 80°C w/LCD Zone 2 Group IIC

SIRA/ATEX 16ATEX2148X

(€ ⁰⁵¹⁸ **(x)** II 1 G Ex ia IIB T4 Ga -40°C ≤ Ta ≤ 85°C, -20°C ≤ Ta ≤ 80°C w/LCD Zone 0 Group IIB

IECEx CSA 12.0014X

Ex ia IIB T4 Ga Ex ic IIC T4 Gc Ta: -40°C to +85°C Ta: -20°C to +80°C w/LCD

Warnings:

 The antenna may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.
The enclosure is made of an aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in a zone 0 environment.

 Substitution of components may impair intrinsic safety.
The battery pack or power adapter may present a potential electrostatic ignition hazard. Use Caution when replacing battery pack or power adapter.

| | without prior agency approval. | 0A | Released | T | | |
|------------------|--|-------|------------------|---|--|--|
| | | 1 | E13028 | + | | |
| | | 2 | E15079 E16022 | + | | |
| | | 4 | E16052 | + | | |
| | | 5 | E16081 | + | | |
| | | 6 | E18004 | + | | |
| | | 7 | E19018 | + | | |
| | | 8 | E19067 | + | | |
| zardous | Suggested Accelerometers: PCB Piezotronics Accelerometer Type EX602, EX6 EX606, EX607 & EX608 according to Certificate L0 10ATEX1005X | | | | | |
| | PCB Piezotronics Accelerometer Type EX602, EX603, EX606, EX607 & EX608 according to Certificate CSA 1469131 | | | | | |
| D; Type | PCB Piezotronics Accelerometer Type EXab602, EXab603, EXab606, EXab607 & EXab608 accordi Certificate CSA 1469131 | ng to | D | | | |
| Cable Entry Port | _ Cable Entry Port | | | | | |

Agency approved drawing. No changes

ECO NO.

DATE

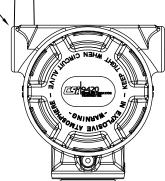
3/16/2012 6/11/2012 3/18/13 25-Jun-2015

22-Feb-2016

9-May-2016 11-May-2016

3-Jan-2018

15-Feb-2019 17-Apr-2019



Rear View

| MATERIAL: | UNLESS OTHERWISE SPE | CIFIED For Refe | For Reference Only | | | |
|----------------------------------|---------------------------------------|-----------------|---------------------|------------------------------------|----------------------|-----------------|
| | DIMENSIONS ARE IN INC | | DATE | ┨───────────────────────────────── | | Knoxville, TN. |
| | TOLERANCES | | | | EMERSON. | |
| | DECIMALS: .X ± .03 | | 3/16/2012 | TITLE | | |
| FINISH: | 0. ± XX. .XXX ± .0 | | DATE 17-Apr-2019 | | 20 Rev4/Rev5 | |
| | FRACTIONS: ± 1/32 ANGULAR: ± 0°-30 | B. Duncan | DATE | In | stallation Detail | |
| ARTWORK FILENAME/REVISION LEVEL: | FINISH: $32 - 32$ | T. Rogers | . DATE | CAD FILENAME D25418 sheet 1 | DRAWING NO, PART NO. | SCALE |
| | DO NOT SCALE THIS DRA | AWING | DATE | FIRST USED MODEL NO. 9420 ZO | D25418 | SHEET 1 OF 3 |

Sensor Connections

1 Sensor

Terminal 1 = Red Wire Terminal 2 = White Wire Terminal 3 = No Connection Terminal 4 = Black Wire Chassis Ground Point = Cable Shield

2 Sensors

Terminal 1 = Both Red Wires Terminal 2 = 1 White Wire Terminal 3 = 1 White Wire Terminal 4 = Both Black Wires Chassis Ground Point = Both Cable Shields

1 Sensor with Temperature

Terminal 1 = Red Wire Terminal 2 = White Wire Terminal 3 = Green Wire Terminal 4 = Black WireChassis Ground Point = Cable Shield

Notes:

1. Installation should be in accordance with the National Electrical Code (NEC), Canadian Electrical Code (CEC) or local codes as applicable. 2. Use only Emerson/Rosemount Power Module Model 701PBKKF, A0701PBU or

Emerson Power Adapter A9000Px.

3. Use only Emerson/Rosemount Hart Communicator Model 375, 475 or TREX. 4. The enclosure may be opened to operate the push buttons, rotate the display or change the power module despite the following warning which appears on the cover, "IN EXPLOSIVE ATMOSPHERE KEEP TIGHT WHEN CIRCUIT ALIVE". This warning is present as it is required for other products which use the same enclosure. 5. The "Ex ia" marking on the nameplate indicates that the transmitter is Intrinsically Safe.

CSI 9420 Zone 0

Intrinsically safe when powered by Emerson Battery Pack Models 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px and with the following entity parameters and when installed per Control Drawing D25418.

Uo/Voc < Ui/Vmax

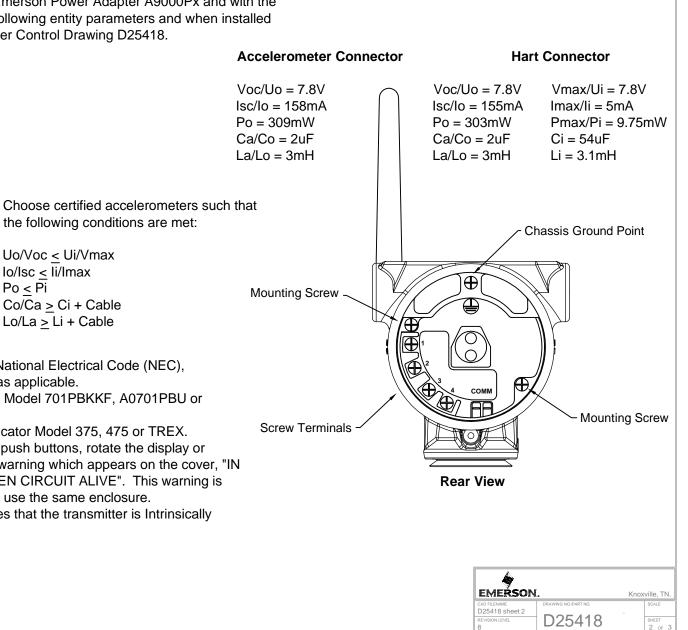
Co/Ca > Ci + Cable

Lo/La > Li + Cable

lo/lsc < li/lmax

Po < Pi

Agency approved drawing. No changes without prior agency approval.



Sensor Connections

1 Sensor

Terminal 1 = Red Wire Terminal 2 = White Wire Terminal 3 = No Connection Terminal 4 = Black Wire Chassis Ground Point = Cable Shield

2 Sensors

Terminal 1 = Both Red Wires Terminal 2 = 1 White Wire Terminal 3 = 1 White Wire Terminal 4 = Both Black Wires Chassis Ground Point = Both Cable Shields

1 Sensor with Temperature

Terminal 1 = Red Wire Terminal 2 = White Wire Terminal 3 = Green Wire Terminal 4 = Black WireChassis Ground Point = Cable Shield

Notes:

1. Installation should be in accordance with the National Electrical Code (NEC), Canadian Electrical Code (CEC) or local codes as applicable.

2. Use only Emerson/Rosemount Power Module Model 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px.

3. Use only Emerson/Rosemount Hart Communicator Model 375, 475 or TREX. 4. The enclosure may be opened to operate the push buttons, rotate the display or change the power module despite the following warning which appears on the cover, "IN EXPLOSIVE ATMOSPHERE KEEP TIGHT WHEN CIRCUIT ALIVE". This warning is present as it is required for other products which use the same enclosure. 5. The "Ex ia" marking on the nameplate indicates that the transmitter is Intrinsically Safe.

CSI 9420 Zone 2

Uo/Voc < Ui/Vmax

Co/Ca > Ci + Cable

Lo/La > Li + Cable

lo/lsc < li/lmax

Po < Pi

Intrinsically safe when powered by Emerson Battery Pack Models 701PBKKF, A0701PBU or Emerson Power Adapter A9000Px and with the following entity parameters and when installed per Control Drawing D25418.

Agency approved drawing. No changes without prior agency approval.

Accelerometer Connector

Hart Connector

