



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

I. Load Cell Summing Junctions IS Version

Model a-bc-d, Load Cell Summing Junctions.

IS/I/1/ABCD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
I/0/Ex ia/IIC/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity

Entity Parameter values: Ui = 30 V, Ii = 100 mA, Ci = 0, Li = 0, Pi = 0.75 W

a = Enclosure: FP or SS
b = Type: 10, 30, 34, 40, 45, 65 or 85
c = Trim: AE or AS
d = Suppression: SP or None

Special Conditions of Use:

1. *Potential Electrostatic Charging Hazard – The enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned with a damp cloth.*

II. Load Cell Summing Junctions IS Version

Model a-bc-d, Load Cell Summing Junctions.

IS/I/1/CD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
I/0/Ex ia/IIB/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

a = Enclosure: FP or SS
b = Type: 10, 30, 34, 40, 45, 65 or 85
c = Trim: AE or AS
d = Suppression: SP or None

Special Conditions of Use:

1. *Potential Electrostatic Charging Hazard – The enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned with a damp cloth.*

To assure that this Approval is still valid, please refer to www.approvalguide.com

III. Load Cells IS Version

Canister Model a, Load Cells.

IS/I/1/ABCD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
I/O/Ex ia/IIC/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity

Reference Control Drawing No. 1500-B-01 for Entity Parameter values

a = Type: CG-21, CG-26S, CG-26S1, CG-26S1-65114, CG-26S2, CG-26S3, CG-26S3-10, CG-26S4, CG-26S5, CG-26S6, CG-26S7, CG-31, CG-33, CG-62, CG-63, CG-92, CG-93, CG-94, CG-175, CG-412, CG-1210, CG-1210-1, CG-1211, CG-CC22, CG-CP22, CG-JRT, CG-SP9, CG-TC42 or CG-TC43

Double Ended Model a, Load Cells.

IS/I/1/ABCD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
I/O/Ex ia/IIC/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity

Reference Control Drawing No. 1500-B-01 for Entity Parameter values

a = Type: CG-16, CG-16-SSW, CG-58, CG-58-1, CG-5103, CG-5103-SSW, CG-5223, CG-5223-SSW, CG-80210, CG-BE40, CG-BE40-SSW, CG-BLC-2, CG-DB50000S, CG-Lodec, CG-ML600-LP, CG-ML1200, CG-SLS, CG-STR, CG-STR-1, CG-STR-1-SSW, CG-STR-SSW or CG-WBM

S Beams Model a, Load Cells.

IS/I/1/ABCD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
I/O/Ex ia/IIC/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity

Reference Control Drawing No. 1500-B-01 for Entity Parameter values

a = Type: CGSB, CGSB-1, CGSB-SS, CGSB-SSW, CSS10077, CSS10078 or CSS10079

Single Ended Beams Model a, Load Cells.

IS/I/1/ABCD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
I/O/Ex ia/IIC/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity

Reference Control Drawing No. 1500-B-01 for Entity Parameter values

a = Type: CG-23, CG-23-1, CG-23-LP, CG-23-SS, CG-23-SS-1, CG-23-SSW-XX, CG-8HL, CG-30410, CG-60030, CG-60040, CG-743, CG-745, CG-BBS, CG-BLC-C, CG-BLC-T, CG-BLF, CG-F1, CG-HMT, CG-LC22, CG-MBB, CG-MK15, CG-SB250, CG-SB2L, CG-SB2M, CG-SB3, CG-SB3-1, CG-SB4, CG-SBF, CG-SMB6, CG-SMB6-2, CG-SSB, CG-SSB-10, CG-TB2, CG-WBL-SS, CG-WB-SS, CG-Z6 or CG-Z6-1

Special Conditions of Use:

1. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

Single Points Model a, Load Cells.

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IS/I/1/ABCD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity
I/O/Ex ia/IIC/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; Entity

Reference Control Drawing No. 1500-B-01 for Entity Parameter values

a = Type: CG-22, CG-22-1, CG-22-2, CG-22-4, 3053177CG-40, CG-40-SS, CG-40-SS-1, CG-42, CG-42-1, CG-42-2, CG-50, CG-50-1, CG-50-SS, CG-50-SS-1, CG-50-2, CG-50-3, CG-51, CG-1010, CG-1130, CG-1130-1, CG-1240, CG-1240-SS, CG-1241, CG-1510, CG-60048, CG-60610, CG-65029, CG-FB, CG-FLS, CG-HPS, CG-MK21, CG-MK4, CG-MK5, CG-PB, CG-PB-1, CG-PWA, CG-PWA-1, CG-PWS, CG-SPL, CG-SPLM, CSS10115 or CSS10133

Special Conditions of Use:

1. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

IV. Load Cells IS Version

Canister Model a, Load Cells.

IS/I/1/CD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
I/O/Ex ia/IIB/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

a = Type: CG-21, CG-26S, CG-26S1, CG-26S1-65114, CG-26S2, CG-26S3, CG-26S3-10, CG-26S4, CG-26S5, CG-26S6, CG-26S7, CG-31, CG-33, CG-62, CG-63, CG-92, CG-93, CG-94, CG-175, CG-412, CG-1210, CG-1210-1, CG-1211, CG-CC22, CG-CP22, CG-JRT, CG-SP9, CG-TC42 or CG-TC43

Double Ended Model a, Load Cells.

IS/I/1/CD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
I/O/Ex ia/IIB/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

a = Type: CG-16, CG-16-SSW, CG-58, CG-58-1, CG-5103, CG-5103-SSW, CG-5223, CG-5223-SSW, CG-80210, CG-BE40, CG-BE40-SSW, CG-BLC-2, CG-DB50000S, CG-Lodec, CG-ML600-LP, CG-ML1200, CG-SLS, CG-STR, CG-STR-1, CG-STR-1-SSW, CG-STR-SSW or CG-WBM

S Beams Model a, Load Cells.

IS/I/1/CD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
I/O/Ex ia/IIB/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

a = Type: CGSB, CGSB-1, CGSB-SS, CGSB-SSW, CSS10077, CSS10078 or CSS10079

Single Ended Beams Model a, Load Cells.

IS/I/1/CD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System
I/O/Ex ia/IIB/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

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a = Type: CG-23, CG-23-1, CG-23-LP, CG-23-SS, CG-23-SS-1, CG-23-SSW-XX, CG-8HL, CG-30410, CG-60030, CG-60040, CG-743, CG-745, CG-BBS, CG-BLC-C, CG-BLC-T, CG-BLF, CG-F1, CG-HMT, CG-LC22, CG-MBB, CG-MK15, CG-SB250, CG-SB2L, CG-SB2M, CG-SB3, CG-SB3-1, CG-SB4, CG-SBF, CG-SMB6, CG-SMB6-2, CG-SSB, CG-SSB-10, CG-TB2, CG-WBL-SS, CG-WB-SS, CG-Z6 or CG-Z6-1

Special Conditions of Use:

1. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

Single Points Model a, Load Cells.

IS/I/1/CD/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

IS/II,III/1/EFG -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

I/O/Ex ia/IIB/T4 -20 °C ≤ Ta ≤ +60 °C – 1500-B-01; System

a = Type: CG-22, CG-22-1, CG-22-2, CG-22-4, 3053177CG-40, CG-40-SS, CG-40-SS-1, CG-42, CG-42-1, CG-42-2, CG-50, CG-50-1, CG-50-SS, CG-50-SS-1, CG-50-2, CG-50-3, CG-51, CG-1010, CG-1130, CG-1130-1, CG-1240, CG-1240-SS, CG-1241, CG-1510, CG-60048, CG-60610, CG-65029, CG-FB, CG-FLS, CG-HPS, CG-MK21, CG-MK4, CG-MK5, CG-PB, CG-PB-1, CG-PWA, CG-PWA-1, CG-PWS, CG-SPL, CG-SPLM, CSS10115 or CSS10133

Special Conditions of Use:

1. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

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Equipment Ratings:

I. IS (Entity) Version

Intrinsically Safe Apparatus for use in Class I, Division 1 or 2, Groups A, B, C & D, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Zone 1, or Zone 2, Ex ia IIC, in accordance with manufacturer's Control Drawing, hazardous locations

II. IS (System) Version

Intrinsically Safe Apparatus for use in Class I, Division 1 or 2, Groups C & D, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Zone 1, or Zone 2, Ex ia IIB, in accordance with manufacturer's Control Drawing, hazardous locations

III. IS (Entity) Version

Intrinsically Safe Apparatus for use in Class I, Division 1 or 2, Groups A, B, C & D, in accordance with manufacturer's Control Drawing; Intrinsically Safe Apparatus for use in Class II, Division 1 or 2, Groups E, F & G, Class III, Division 1 or 2, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Zone 1, or Zone 2, Ex ia IIC, in accordance with manufacturer's Control Drawing, hazardous locations

IV. IS (System) Version

Intrinsically Safe Apparatus for use in Class I, Division 1 or 2, Groups C & D, in accordance with manufacturer's Control Drawing; Intrinsically Safe Apparatus for use in Class II, Division 1 or 2, Groups E, F & G, Class III, Division 1 or 2, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Zone 1, or Zone 2, Ex ia IIB, in accordance with manufacturer's Control Drawing, hazardous locations

FM Approved for:

Coti Global Sensors, Inc.
5699 Highway 53
Harvest, AL 35749
USA

To assure that this Approval is still valid, please refer to www.approvalguide.com

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

C22.2 No. 157-92	2012
C22.2 No. 60079-0	2011
C22.2 No. 60079-11	2014
C22.2 No. 61010-1	2012

Original Project ID: 3026213

Approval Granted: January 15, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3029958	June 25, 2008		
071010	July 3, 2008		
071013	August 22, 2008		
090204	May 29, 2009		
090825	November 12, 2009		
3040476	March 3, 2011		
110405	August 24, 2011		
120413	July 11, 2012		
121109	November 30, 2012		
3048686	June 27, 2014		

FM Approvals LLC



J. E. Marquedant
 Manager, Electrical Systems

27 June 2014

Date

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