

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM17US0300X
3. **Equipment:** Load Cell
(Type Reference and Name)
4. **Name of Listing Company:** Coti Global Sensors Mfg Inc
5. **Address of Listing Company:** 5709 Hwy 53
Harvest, AL 35749
United States
6. The examination and test results are recorded in confidential report number:
3026213 dated 15th January 2007
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
Class 3600:2011, Class 3610:2010, Class 3810:2005, ANSI/ISA-60079-0:2013,
ANSI/ISA-60079-11:2012, ANSI/ISA-61010-1:2012
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. Equipment Ratings:

I. IS (Entity) Version

Intrinsically Safe Apparatus for use in Class I, Division 1, Groups A, B, C & D, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Ex ia IIC, in accordance with manufacturer's Control Drawing, hazardous (classified) locations with an ambient temperature rating of -20°C to +60°C.

Certificate issued by:



J.E. Marquedant
Manager, Electrical Systems

28 September 2017

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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US Certificate Of Conformity No: FM17US0300X

II. IS (System) Version

Intrinsically Safe Apparatus for use in Class I, Division 1, Groups C & D, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Ex ia IIB, in accordance with manufacturer's Control Drawing, hazardous (classified) locations with an ambient temperature rating of -20°C to +60°C.

III. IS (Entity) Version

Intrinsically Safe Apparatus for use in Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G, Class III, Division 1 in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Ex ia IIC, in accordance with manufacturer's Control Drawing, hazardous (classified) locations with an ambient temperature rating of -20°C to +60°C.

IV. IS (System) Version

Intrinsically Safe Apparatus for use in Class I, Division 1, Groups C & D, Class II, Division 1, Groups E, F & G, Class III, Division 1, in accordance with manufacturer's Control Drawing; Equipment protection by Intrinsic Safety for use in Class I, Zone 0, Ex ia IIB, in accordance with manufacturer's Control Drawing, hazardous (classified) locations with an ambient temperature rating of -20°C to +60°C.

11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D; T4 Ta = -20°C to +60°C 1500-B-01

Class II, Division 1, Groups E, F, G, Class III, Division 1; T4 Ta = -20°C to +60°C 1500-B-01

Class I, Zone 0, Ex ia IIC T4 Ta = -20°C to +60°C 1500-B-01

12. Description of Equipment:

General - The Load Cell is a transducer for the measurement of force or weight, based on a strain gauge bridge. This transducer converts a force into a differential electrical signal.

Construction - The strain gauge circuitry for the Load Cell is encapsulated into a steel or stainless steel enclosure depending upon model.

Ratings - The Load Cell operates at voltages up to 30 volts applied to the strain gauge's bridge circuitry. The ambient operating temperature range of the Load Cell is -20°C to 60°C..

I. Load Cell Summing Junctions IS Version

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

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

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II. Load Cell Summing Junctions IS Version

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

- 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

III. Load Cells IS Version

Canister Model a, Load Cells.

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.

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(NONE, -W, -X, -Z)

S Beams Model a, Load Cells.

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

Single Ended Beams Model a, Load Cells.

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

Single Points Model a, Load Cells.

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

IV. Load Cells IS Version

Canister Model a, Load Cells.

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.

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(NONE, -W, -X, -Z)

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S Beams Model a, Load Cells.

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

Single Ended Beams Model a, Load Cells.

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

Single Points Model a, Load Cells.

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

13. Specific Conditions of Use:

1. Maximum cable length 'L' is 100 feet.
2. The load cell must be bonded to intrinsically safe ground.
3. 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.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
January 15, 2007	Original Issue.
June 25, 2008	<u>Supplement 1:</u> Report Reference: – 3029958 dated June 25, 2008 Description of the Change: Model extension
July 3, 2008	<u>Supplement 2:</u> Report Reference: – 071010 dated July 3, 2008 Description of the Change: Model extension

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August 22, 2008	<u>Supplement 3:</u> Report Reference: – 071013 dated August 22, 2008 Description of the Change: Model extension
May 29, 2009	<u>Supplement 4:</u> Report Reference: – 090204 dated May 29, 2009 Description of the Change: Model extension
November 12, 2009	<u>Supplement 5:</u> Report Reference: – 090825 dated November 12, 2009 Description of the Change: Model extension
March 3, 2011	<u>Supplement 6:</u> Report Reference: – 3040476 dated March 3, 2011 Description of the Change: Model extension
August 24, 2011	<u>Supplement 7:</u> Report Reference: – 110405 dated August 24, 2011 Description of the Change: Model extension
July 11, 2012	<u>Supplement 8:</u> Report Reference: – 120413 dated July 11, 2012 Description of the Change: Model extension
November 30, 2012	<u>Supplement 9:</u> Report Reference: –121109 dated November 30, 2012 Description of the Change: Model extension
June 27, 2014	<u>Supplement 10:</u> Report Reference: – 3048686 dated June 27, 2014 Description of the Change: Model extension
28 th September 2017	<u>Supplement 11:</u> Report Reference: – RR210824 dated 28 th September 2017 Description of the Change: Model extension

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