

CERTIFICATE OF CONFORMITY



Member of the FM Global Group

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM17US0300X
3. **Equipment:** Load Cells
(Type Reference and Name) Load Cell Summing Junctions
4. **Name of Listing Company:** Coti Global Sensors Mfg Inc
5. **Address of Listing Company:** 5709 Hwy 53,
Harvest, Alabama 35749, USA

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:

FM 3600:2022, FM 3610:2021, FM 3611:2021, FM 3810:2021, ANSI/UL 60079-0:2020,
ANSI/UL 60079-11:2018, ANSI/UL 61010-1:2019, ANSI/UL 121201:2021

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:**

See Annex

11. **The marking of the equipment shall include:**

See Annex

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.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

28 August 2023

Date

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

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0300X



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The Load Cell Summing Junction is used for trimming/balancing the connection of multiple Load Cell transducers in multiple force or weight applications.

Construction - The strain gauge circuitry for the Load Cell is encapsulated into an aluminum, steel or stainless-steel enclosure depending upon model. The circuitry of the Load Cell Summing Junction is enclosed in a plastic or stainless-steel enclosure depending upon model.

The ambient operating temperature range of the Load Cell and Summing Junction is -20 °C to +60 °C.

Electrical Ratings – The Load Cells and Load Cell Summing Junction are powered by a barrier with the following intrinsic safety entity and nonincendive field wiring parameters:

$U_i = 20\text{Vdc}$, $I_i = 600\text{ mA}$, $P_i = 1.3\text{ W}$, $C_i = 0.0\text{ uF}$, $L_i = 0.0\text{mH}$

See Annex for model codes

13. Specific Conditions of Use:

See Annex

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
15 January 2007	Original Issue.
25 June 2008 to 27 June 2014	<u>Supplement 1 to 10:</u> Report Reference: – 3048686 dated 27 th June 2014. Description of the Change: Model extension
28 September 2017	<u>Supplement 11:</u> Report Reference: – RR210824 dated 28 th September 2017. Description of the Change: Model extension
24 August 2018	<u>Supplement 12:</u> Report Reference: – RR215276 dated 24 th August 2018. Description of the Change: Model extension

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F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0300X



Member of the FM Global Group

Date	Description
24 July 2019	<u>Supplement 13:</u> Report Reference: – RR219410 dated 24 th July 2019. Description of the Change: Model extension and updated FM3600, FM3610 and FM3810
17 July 2020	<u>Supplement 14:</u> Report Reference: – RR224206 dated 17 th July 2020. Description of the Change: Model extension Addition of CG-TWM, and CG-RLC to Canister Model a, Load Cells.
25 August 2021	<u>Supplement 15:</u> Report Reference: – RR229178 dated 25 th August 2021. Description of the Change: Addition of load cell models CG-CP24 and Railline-CG-RXR. Minor drawing changes not affecting safety.
1 April 2022	<u>Supplement 16:</u> Report Reference: - RR232118 dated 1 st April 2022. Description of the Change: Addition of S Beams Model CG-ITCM-1, CGSB-MT and CGSB-SS-MT load cells. Addition of ABS Summing Junction enclosure option. Minor drawing changes. Reformatted Certificate. FM Class 3600, 3610 and 3810 updated from 2018 to current edition.
5 August 2022	<u>Supplement 17:</u> Report Reference: - RR233862 dated 5 th August 2022. Description of the Change: Addition of load cell model CG-16M-SS-75K-SP. Added missing EPL to Equipment Ratings and Markings sections.
1 March 2023	<u>Supplement 18:</u> Report Reference: - PR465067 dated 1 st March 2023. Description of the Change: <ol style="list-style-type: none">1. Class I, II, III, Division 2 ratings added to equipment2. System installations removed from Equipment Ratings3. New Load Cells CG-SB2L-SSW and CG-SB2M-SSW added to Single Ended Beam model category4. FM 3611:2021 added to Standards List5. ANSI/UL 121201:2019 added to Standards List6. ANSI/ISA 60079-0:2013 updated to ANSI/UL 60079-0:20207. ANSI/ISA 60079-11:2012 updated to ANSI/UL 60079-11:20188. ANSI/ISA 61010-1:2012 updated to ANSI/UL 61010-1:2018

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F 347 (Apr 21)



Page 3 of 9

SCHEDULE

US Certificate Of Conformity No: FM17US0300X



Member of the FM Global Group

Date	Description
28 August 2023	<p><u>Supplement 19:</u> Report Reference: RR238199 dated 28 August 2023. Description of the Change(s):</p> <ol style="list-style-type: none">1. U_i updated from 15V to 20V2. ANSI/UL 121201:2019 updated to ANSI/UL 121201:20213. ANSI/UL 61010-1:2018 updated to ANSI/UL 61010-1:2019

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F 347 (Apr 21)



Page 4 of 9

SCHEDULE

US Certificate Of Conformity No: FM17US0300X



ANNEX

Model a-bc-d. Load Cell Summing Junctions

Equipment Ratings:

Intrinsically Safe for use in:
Class I, Division 1, Groups A, B, C, D; T4 Ta = -20°C to +60°C; 1500-B-01 Entity.

Intrinsically Safe for use in:
Class I, Zone 0, AEx ia IIC; T4 Ga Ta = -20°C to +60°C; 1500-B-01 Entity.

Nonincendive for use in:
Class I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW

Markings:

IS Class I, Division 1, Groups A, B, C, D; T4 Ta = -20°C to +60°C; Entity
Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +60°C; Entity
Class, I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW
Refer to Control Drawing 1500-B-01 for Installation

Description of Equipment:

Model Code

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

Specific Conditions of Use:

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

Canister Model a, Load Cells

Equipment Ratings:

Intrinsically Safe for use in:
Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; 1500-B-01 Entity.

Intrinsically Safe for use in:
Class I, Zone 0, AEx ia IIC; T4 Ga Ta = -20°C to +60°C; 1500-B-01 Entity.

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F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0300X



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Nonincendive for use in:
Class I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW

Markings:

IS Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; Entity
Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +60°C; Entity
Class, I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW
Refer to Control Drawing 1500-B-01 for Installation

Description of Equipment:

Model Code

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-94M, CG-175, CG-408M, CG-412, CG-412M, CG-1210, CG-1210-1, CG-1211, CG-CC22, CG-CP22, CG-CP24, CG-JRT, CG-SP9, CG-SP9M, CG-TC42 or CG-TC43, CG-TWM, or CG-RLC

Specific Conditions of Use:

None

Double Ended Model a, Load Cells

Equipment Ratings:

Intrinsically Safe for use in:
Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; 1500-B-01 Entity.

Intrinsically Safe for use in:
Class I, Zone 0, AEx ia IIC; T4 Ga Ta = -20°C to +60°C; 1500-B-01 Entity.

Nonincendive for use in:
Class I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW

Markings:

IS Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; Entity
Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +60°C; Entity
Class, I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW
Refer to Control Drawing 1500-B-01 for Installation

Description of Equipment:

Model Code

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F 347 (Apr 21)



SCHEDULE

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a = Type: CG-03M, CG-16, CG-16M, CG-16M-SS-75K-SP, CG-16-SSW, CG-58, CG-58-1, CG-408M, CG-5103, CG-5103-SSW, CG-5223, CG-5223M, CG-5223-SSW, CG-80210, CG-BE40, CG-BE40M, CG-BE40-SSW, CG-BLC-2, CG-DB50000S, CG-Lodec, CG-ML600-LP, CG-ML1200, CG-SLS, CG-SLS-SS, CG-STR, CG-STR-1, CG-STR-1-SSW, CG-STR-SSW, CG-TSA or CG-WBM(NONE, -W, -X, -Z), Railline-CG-RXR

Specific Conditions of Use:

None

S Beams Model a, Load Cells

Equipment Ratings:

Intrinsically Safe for use in:

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

Intrinsically Safe for use in:

Class I, Zone 0, AEx ia IIC; T4 Ga Ta = -20°C to +60°C; 1500-B-01 Entity.

Nonincendive for use in:

Class I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW

Markings:

IS Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; Entity

Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +60°C; Entity

Class I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW

Refer to Control Drawing 1500-B-01 for Installation

Description of Equipment:

Model Code

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

Specific Conditions of Use:

None

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F 347 (Apr 21)



SCHEDULE

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Single Ended Beams Model a, Load Cells

Equipment Ratings:

Intrinsically Safe for use in:
Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; 1500-B-01 Entity.

Intrinsically Safe for use in:
Class I, Zone 0, AEx ia IIC; T4 Ga Ta = -20°C to +60°C; 1500-B-01 Entity.

Nonincendive for use in:
Class I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW

Markings:

IS Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; Entity
Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +60°C; Entity
Class, I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW
Refer to Control Drawing 1500-B-01 for Installation

Description of Equipment:

Model Code

a = Type: CG-8HL, CG-23, CG-23-1, CG-23-LP, CG-23M, CG-23-SS, CG-23-SS-1, CG-23-SSW-XX, CG-59M, CG-82M, 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-RTM, 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-WBM-W, CG-WBM-X, CG-WBM-Z, CG-Z6, CG-Z6M, CG-Z6-1, CG-SB2L-SSW or CG-SB2M-SSW

Specific 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

Equipment Ratings:

Intrinsically Safe for use in:
Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; 1500-B-01 Entity.

Intrinsically Safe for use in:
Class I, Zone 0, AEx ia IIC; T4 Ga Ta = -20°C to +60°C; 1500-B-01 Entity.

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Nonincendive for use in:
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Markings:

IS Class I, II, III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -20°C to +60°C; Entity
Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°C to +60°C; Entity
Class, I, II, III, Division 2, Groups A, B, C, D, F and G; T4 Ta = -20°C to +60°C; NIFW
Refer to Control Drawing 1500-B-01 for Installation

Description of Equipment:

Model Code

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

Specific 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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F 347 (Apr 21)



Page 9 of 9