

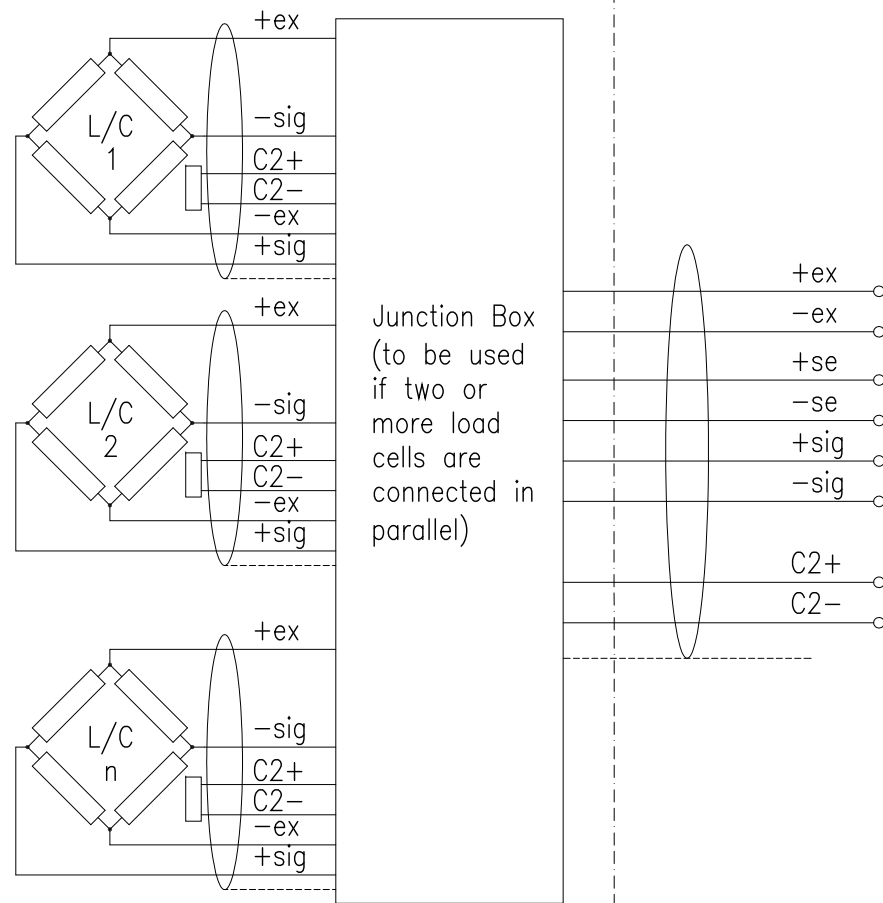
REV.	ECO/DDC	DESCRIPTION	DATE	DRAFT	CHECK	APV'D
A	----	RELEASED.	03-21-12	V.J.C.	L.E.G.	V.J.C.
b	11870	REVISED PER ECN.	09-19-16	V.J.C.	L.E.G.	V.J.C.

HAZARDOUS AREA

NON-HAZARDOUS AREA

APPROVED FOR CLASS I, II AND III, DIVISION 1,
GROUPS A, B, C, D, E, F AND G HAZARDOUS LOCATIONS.

$V_{max} = 29.9 \text{ V.}$
 $I_{max} = 0.450 \text{ A.}$
 $C_i = 0.$
 $L_i = 0.$



The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus when the following is true:

$V_{max} \geq V_{oc}, V_t \text{ or } U_o;$
 $I_{max} \geq I_{sc}, I_t \text{ or } I_o \text{ (Combined } I_{sc}, I_t \text{ or } I_o \text{ of ALL BARRIERS } \leq I_{max});$
 $C_a \geq C_i + C_{cable};$
 $L_a \geq L_i + L_{cable}.$

- NOTES:**
- MAX. CABLE LENGTH = 100 FT.
 - n = MAX. NUMBER OF LOAD CELLS THAT CAN BE CONNECTED IN PARALLEL WITHOUT EXCEEDING MAX. TOTAL CAPACITANCE AND MAX. TOTAL INDUCTANCE.
 - INSTALLATION SHOULD BE IN ACCORDANCE WITH ANSI/ISA RP12.06.01 "INSTALLATION OF INTRINSICALLY SAFE SYSTEM FOR HAZARDOUS (CLASSIFIED) LOCATIONS" AND THE NATIONAL ELECTRICAL CODE (ANSI/NFPA 70)
 - APPARATUS CONNECTED TO THE SYSTEM SHALL NOT USE OR GENERATE VOLTAGE GREATER THAN 250 V.
 - INSTALL INTRINSIC SAFE BARRIERS IN ACCORDANCE WITH BARRIER INSTRUCTIONS.
 - SUBSTITUTION OF COMPONENTS MAY VOID FACTORY MUTUAL APPROVAL.
 - THE ASSOCIATED APPARATUS MUST BE FM APPROVED
 - NO REVISION TO DRAWING WITHOUT PRIOR FM APPROVAL

THE LIST BELOW APPLIES TO ALL FOUR (4) PAGES

APPROVED LOAD CELLS:

HI SBH04-a, HI SB05-a, HI BBH06-b, HI RCH01-d, HI RCH03-d, HI RCH04-d
HI SP1-b, HI SPA60-g, HI SP6-b, HI SPA42-b, HI SPA22-b, HI SP3-b
HI SB01-f, HI SB02-a, HI SBHF14-a, HI PB-e, HI SPB1-g, HI SP7-b
HI HBB01-b, HI HP50-h,

APPROVED FORCE TRANSDUCERS:

HI STH01-a, HI STH06-b, HI STLB-a

- a = Capacity any between 100 kg and 10 ton; 200 lb and 20 klb; 1 kN and 100 kN.
- b = Capacity any between 5 kg and 500 kg; 10 lb and 1 klb; 50 N and 5 kN.
- d = Capacity any between 5 klb and 500 klb; 2 ton and 300 ton, 20 kN and 2.5 MN.
- e = Capacity any between 0.5 kg and 2500 kg; 1 lb and 5 klb; 5 N and 25 kN.
- f = Capacity any between 200 lb and 20 klb; 100 kg and 10000 kg; 1kN and 100 kN.
- g = Capacity any between 20 kg and 1000 kg; 50 lb and 2000 lb; 200 N and 10 kN.
- h = Capacity any between 100 kg and 100 ton; 200 lb and 200 klb; 1 kN and 1 MN.

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ITEM	QTY	PART NUMBER	DESCRIPTION	COMMENTS
0594-0005 General Control Drawing, Entity Mode, Hardy Load Sensors				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN IN [MM]		CONTRACT NO.		
TOLERANCES ARE:		APPROVALS		
FRACTIONS: N/A		DRAWN	DATE	 General Control Drawing, Entity Mode, Hardy Load Sensors
DECIMALS: .XX = N/A		V. CHULA	01-31-12	
.XXX = N/A		CHECKED	DATE	
ANGLES: ±0°, 30'		L. GUIRIBA	03-21-12	
		APPROVED	DATE	
MATERIAL		V. CHULA	03-21-12	
FINISH		ISSUED	DATE	
		V. CHULA	03-21-12	
		PRODUCTION	DATE	
DO NOT SCALE DRAWING		SIZE	FSCM	DRAWING NO.
		D	21316	0594-0005
		REV.	B	
		FILE NAME:	594005B1.DWG	SCALE: NONE
		SHEET	1 OF 1	