

## **AUTHORIZATION TO MARK**

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

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Control Number: 4008610 Authorized by:

for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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## **AUTHORIZATION TO MARK**

Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations [UL 913:2013 Ed.8]

Explosive Atmospheres - Part 0: Equipment - General Requirements [UL 60079-0:2013 Ed.6]

Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i" [UL 60079-11:2013 Ed.6+R:28Mar2014]

Explosive Atmospheres - Part 15: Equipment Protection By Type Of Protection 'N' [UL 60079-15:2013 Ed.4 +R:02Aug2013]

Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection By Enclosure "T" [UL 60079-31:2015 Ed.2]

Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations [UL 121201:2017 Ed.9+R:26Aug2019]

Nonincendive Electrical Equipment For Use In Class I And II, Division 2 And Class III, Divisions 1 and 2 Hazardous (Classified) Locations [CSA C22.2#213:2017 Ed.3+U1]

## Standard(s):

Explosive Atmospheres - Part 0: Equipment - General Requirements [CSA C22.2#60079-0:2011 Ed.2]

Explosive Atmospheres - Part 11: Equipment Protection By Intrinsic Safety "i" [CSA C22.2#60079-11:2014 Ed.2]

Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Construction, Test and Marking of Type of Protection "n" Electrical Apparatus [CSA C22.2#60079-15:2012 Ed.1]

Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection By Enclosure "T" [CSA C22.2#60079-31:2012 Ed.1]

Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations [CSA C22.2#25:1966 Ed.1+G1]

Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use - Part 1: General Requirements [UL 61010-1:2012 Ed.3+R:29Apr2016]

Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use – Part 1: General Requirements (R2017) [CSA C22.2#61010-1-12:2012 Ed.3+U1;U2]



## **AUTHORIZATION TO MARK**

"E" & "G" series externally powered panel mount rate totalisers for use in

(models BA317E, BA337E, BA367E, BA377E, BA318E, BA338E, BA368E, BA378E, BA388E, BA314E,

BA334E, BA364E, BA374E and BA384E)

Class I Div 1 Groups A,B,C,D T5 Class II Div 1 Groups E,F,G, Class III Class I Zone 0 AEx ia IIC T5 Ga

Ex ia IIC T5 Ga

in an ambient of -40°C ≤ Ta ≤ +70°C

(models BA317E-SS, BA337E-SS, BA367E-SS, BA377E-SS, BA314G, BA334G, BA364G, BA374G and

BA384G)

Class I Div 1 Groups A,B,C,D T5 Class II Div 1 Groups E,F,G, Class III Class I Zone 0 AEx ia IIC T5 Ga Zone 20 AEx ia IIIC T80°C Da

**Product:** Ex ia IIC T5 Ga

Ex ia IIIC T80°C Da

in an ambient range -40°C ≤ Ta ≤ +60°C

(models BA317NE, BA337NE, BA367NE, BA377NE, BA314NG, BA334NG, BA364NG, BA374NG and

BA384NG)

Class I Zone 2 AEx nA ic IIC T5 Gc Zone 22, AEx ic tc IIIC T80°C Dc

Ex nA ic IIC T5 Gc Ex n IIC T5 Gc Ex ic tc IIIC T80° Dc

Class III Div 2, Class II Div 2 Groups F,G in an ambient range  $-40^{\circ}$ C  $\leq$  Ta  $\leq$   $+60^{\circ}$ C

(all models)

Class I Div 2 Groups A,B,C,D T5

Class II Div 2 Groups F,G, Class III Div 2

**Brand Name: BEKA** 

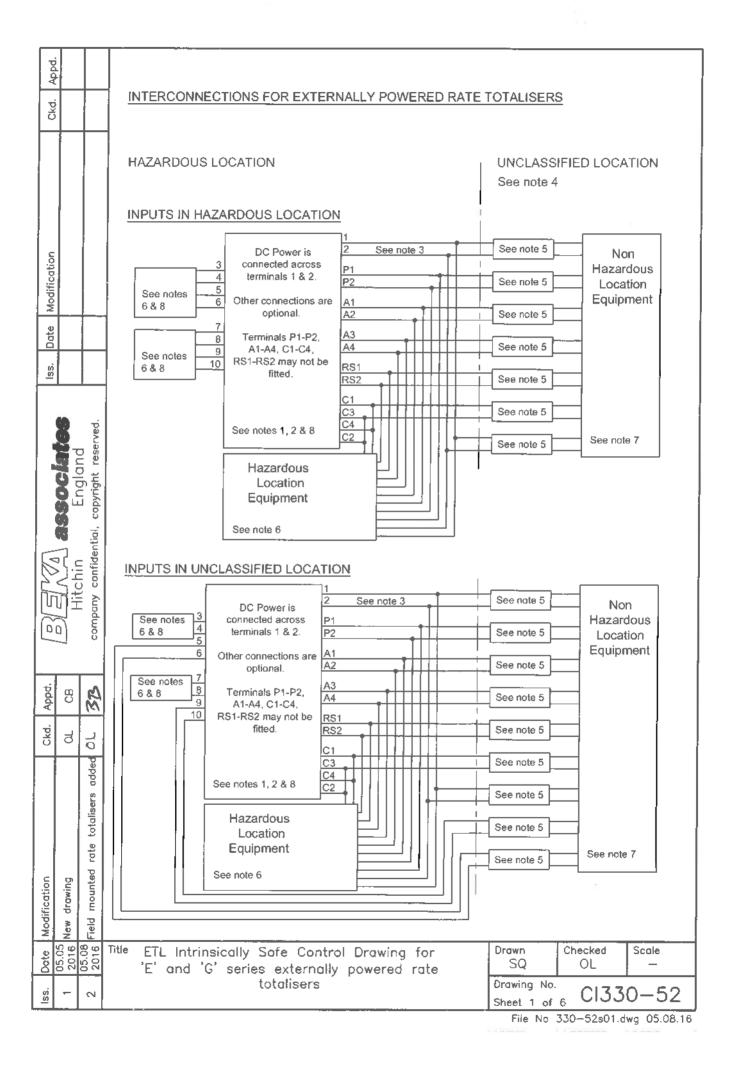
BA317E; BA337E; BA367E; BA377E; BA318E; BA338E; BA368E; BA378E; BA388E. BA317NE;

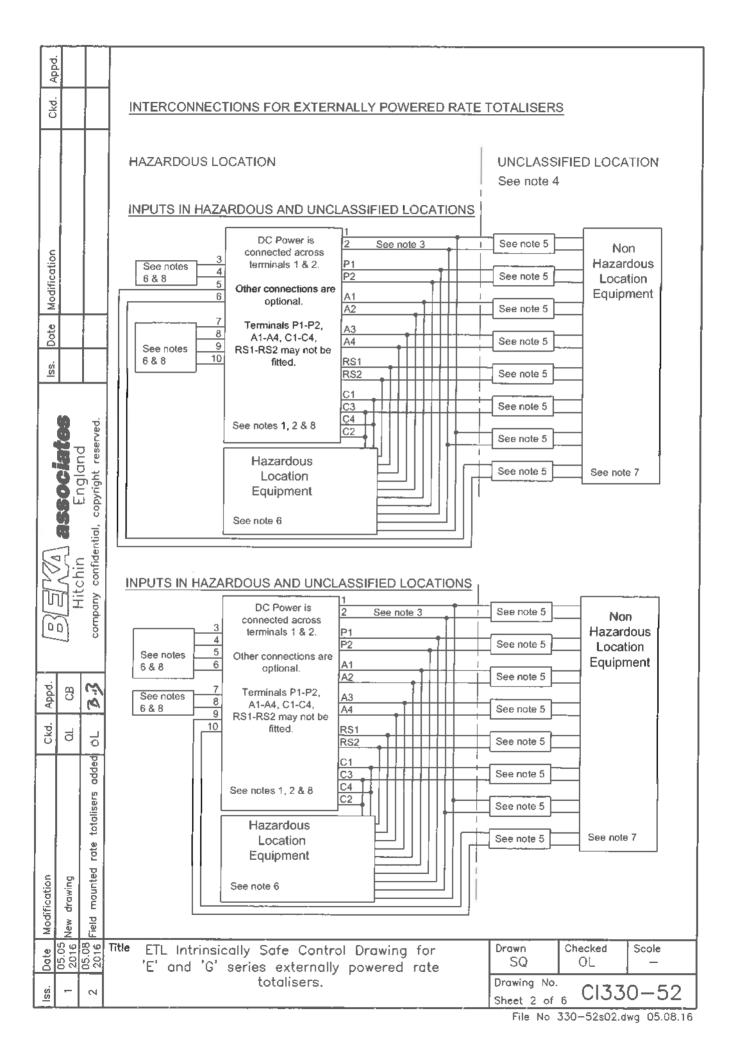
BA337NE; BA367NE; BA377NE.

Models: BA317E-SS; BA337E-SS; BA367E-SS. BA377E-SS.

BA314E; BA334E; BA364E; BA374E; BA384E. BA314G; BA334G; BA364G; BA374G; BA384G.

BA314NG; BA334NG; BA364NG; BA374NG; BA384NG.





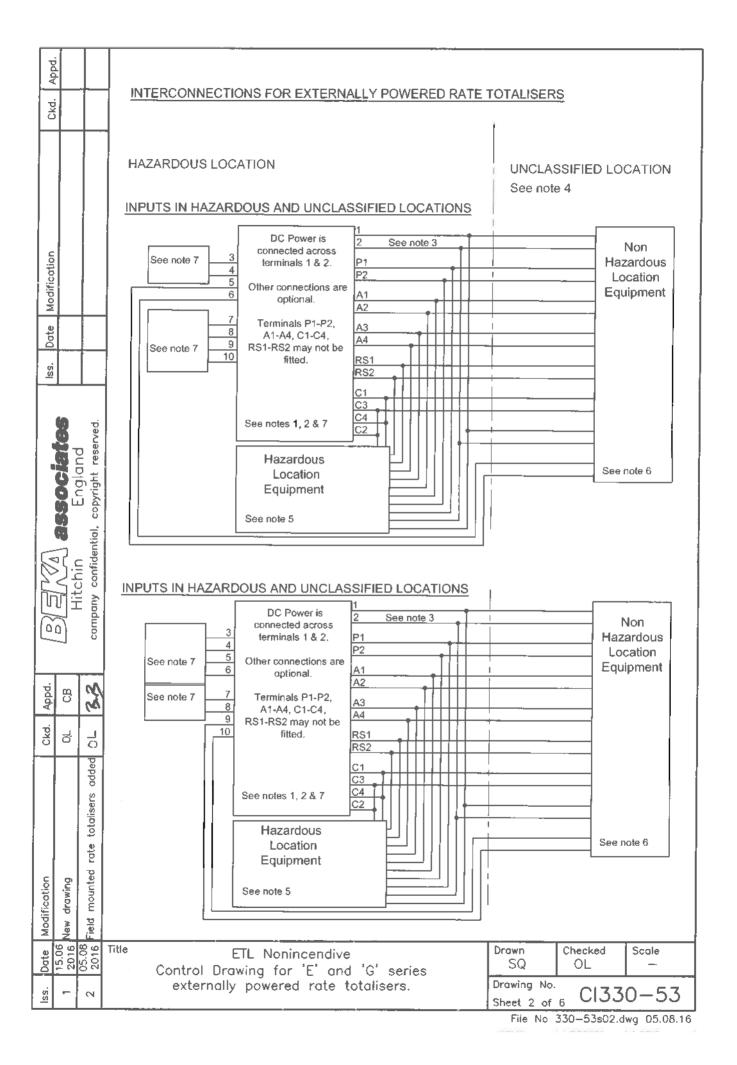
ıl						
	Notes					
	1. 1 and 2 input externally powered rate totalisers with model numbers and coding as shown in the following tables.					
			E PANEL MOUNTING INSTRUMENTS			
	Туре	Model Nos.	Division Marking	Zonal Marking	Ambient Temp.	
	1 input tachometer 1 input rate totaliser 2 input rote totaliser 1 input counter 2 input counter 1 input timer 2 input timer	8A317E 8A318E 8A337E 8A338E 8A368E 6A367E 8A368E 8A377E 8A378E	Class I Division 1 Groups A, B, C & D TS Class II Division 1 Groups E, F & G Class III Division 1	Zone O AEx ia IIC T5 Ga	-40°C to +70°C ,	
			F-SS PANEL MOUNTING INSTRUMENT	s		
	Туре	Model Nos.	Division Marking	Zonal Marking	Ambient Temp.	
;	1 input tachometer 1 input rate totaliser 1 input counter 1 input timer	BA317E-SS BA337E-SS BA367E-SS BA377E-SS	Class I Division 1 Groups A, B, C & D T5 Class II Division 1 Groups E, F & G Class III Division 1	Zone D AEx is IIC T5 Ga Zone 20 AEx is IIIC T80°C Da	(see note 9) -40°C to +60°C	
ģ			G FIELD MOUNTING INSTRUMENTS			
serve	Туре	Model Nas.	Division Marking	Zonal Marking	Ambient Temp. (see note 9)	
opyright re	1 input tochometer 1 input rate totaliser 2 input rate totaliser 2 input counter 2 input timer	BA314G BA334G 8A384G BA364G BA374G	Class I Division 1 Groups A, B, C & D T5 Class II Division 1 Groups E, F & G Class III Division 1	Zone O AEx ia IIC T5 Ga Zone 20 AEx ia IIC T80°C Da	-40°C to +60°C	
- 1			E FIELD MOUNTING INSTRUMENTS			
nfide	Туре	Model Nos.	Division Marking	Zona) Marking	Ambient Temp.	
	1 input tachometer 1 input rate totaliser 2 input rate totaliser 2 input counter 2 input timer	BA314E BA334E BA384E BA364E BA374E	Class I Division 1 Groups A, B, C & D T5 Class II Division 1 Groups E, F & G Class III Division 1	Zone O AEx io IIC T5 Ga	-40°C to +70°C	
cp	2. Terminals 7,	8, 9 and 10	only exist on 2 input instruments.			
<u> </u>						
0						
dded						
- 1						
totalis						
mounted						
Field						
	Title FTI Intrin	sically So	afe Control Drawing for	Drawn Chec	ked Scale	
2016			externally powered rate	SQ C	)L	
	mounted rate totalisers added OL &	Type  1 input tachometer 1 input rate totaliser 2 input counter 2 input timer  1 input tachometer 1 input totaliser 2 input counter 2 input totaliser 1 input tachometer 1 input tachometer 1 input totaliser 2 input timer  2 input timer  2 input timer  2 input tachometer 1 input rate totaliser 2 input timer  2 input timer  2 input timer	Type Model Nos.  1 input tachometer BA317E 1 input rate totaliser BA338E 2 input counter BA367E 2 input counter BA367E 2 input counter BA367E 2 input totaliser BA377E 3 input timer BA377E  Type Model Nos.  1 input tachometer BA377E 1 input tachometer BA377E 1 input totaliser BA377E 1 input totaliser BA377E 2 input totaliser BA377E 2 input totaliser BA377E 3 input tachometer BA377E 3 input tachometer BA377E 1 input tachometer BA377E 2 input totaliser BA374G 3 BA374G  Type Model Nos.  1 input tachometer BA374G 2 input totaliser BA374G 3 BA374G  Type Model Nos.  1 input tachometer BA374G 2 input totaliser BA374G 3 BA374G  2 input tachometer BA374G 3 BA374E 3 input tachometer BA377E 3 input tachometer BA374E 3 inpu	FOR PANEL MOUNTING INSTRUMENTS  Type   Model Nos.   Division Marking   1 input tochometer   BA317E   BA338E   BA336E   BA336E   BA336E   BA336E   BA336E   BA336E   BA336E   BA336E   BA376E   B	Type   Model Nos.   Division Marking   Zonal M	

Ckd. Appd.	3.	System	tions shall be in accordance wi s for Hazardous (Classified) Lo ions in Canada shall be in acco	cations' and the Nation	al Electrical (	Code ANSI/I	NFPA 70.
	4.	manufac For insta NRTL o	ociated protective barriers and cturers instructions shall be foll allations in Canada the associa r CSA approved and the manu g this equipment.	owed when installing that ted protective barriers	is equipment and galvanic	t. isolators sh	all be
Modification	5.		gle channel or one two channe arameters complying with the f		barrier or ga	lvanic isolat	or with
<del>                                     </del>	-	Uo	equal or less than	the lowest Ui of the apparatus installed		A approved	
lss. Date		lo	equal or less than	the lowest li of the Napparatus installed		\ approved	
40 -		Po	equal or less than	the lowest Pi of the apparatus installed i		A approved	
SOCIATES England copyright reserved.		Lo	equal or greater than	the sum of the cable internal inductances approved apparatus	Li of each N		`
entiol,		Co	equal or greater than	the sum of the cable capacitance Ci of ea apparatus in the loo	ich NRTL or		
Hitchin confid	6.		Apparatus as defined in the Na da by the Canadian Electrical 0		NSI/NFPA 7	0, or for inst	allations
dw <sub>0</sub>		Ui	equal or greater than	the highest Uo of the CSA approved appa		ng the loop.	
Appd. CB		li	equal or greater than	the highest lo of the CSA approved appa		ng the loop.	,
ORG. A		Pi	equal or greater than	the highest Po of the CSA approved appa		ng the loop.	
pappa		Lo	of the NTRL or CSA approved powering the loop equal or gre				}
e totalisers				the sum of the cable inductances Li of eac apparatus in the loop	ch NTRL or 0		
Modification New drawing Field mounted rate		Co	of the NTRL or CSA approved powering the loop equal or gre				
Date 05.05 2016 05.08 2016	Title		Intrinsically Safe Control nd 'G' series externally totalisers.		Drawn SQ Drawing No	Checked OL	Scale —
<u>8</u> 8. – 2			Compers.		Sheet 4 of	<sub>6</sub> CI33	0-52 lwg 05.08.16

Appd.		
Š	7. The unclassified location equipment shall no	t use or generate more than 250V rms or 250V dc.
	8. Safety parameters DC Power terminals 1 & 2	Terminals RS1-RS2, (optional reset input)
Modification	Ui = 28V   Uo = 0 Ii = 200mA   Io = 0 Pi = 0.84W Ci = 2nF $Li = 4\mu H$	Ui = 28V
lss. Date Mo	Terminals 4,5,6 (input A for models in notes 6 and 7), terminals 8,9,10 (input b for models in note 7).	Terminal 3,4,5,6 (input A for models in notes 6 and 7), terminals 7,8,9,10 (input b for models in note 7).
artes nd reserved.	$\begin{array}{lll} \mbox{Ui} & = & 28 \mbox{V} & \mbox{Uo} = 1.1 \mbox{V} \\ \mbox{Ii} & = & 200 \mbox{mA} & \mbox{Io} = 0.5 \mbox{mA} \\ \mbox{Pi} & = & 0.84 \mbox{W} & \mbox{Po} = 0.2 \mbox{mW} \\ \mbox{Ci} & = & 2 \mbox{nF} \\ \mbox{Li} & = & 4 \mbox{\mu} \mbox{H} \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Engla copyright	Optional pulse output terminals P1 & P2	Optional 4-20mA output terminals C1, C2, C3 and C4
tchin confidential,	Ui = 28V	$\begin{array}{lll} \text{Ui} & = & 28 \text{V} & \text{Uo} = 0 \\ \text{Ii} & = & 200 \text{mA} & \text{Io} = 0 \\ \text{Pi} & = & 0.84 \text{W} \\ \text{Ci} & = & 2.2 \text{nF} \\ \text{Li} & = & 4 \mu \text{H} \end{array}$
E) (E) (E) (E) (E) (E) (E) (E) (E) (E) (	Optional alarm output terminals A1, A2, A3 and A4	
Ckd. Appd. OL CB	Ui = 28V $Uo = 1.47VIi = 200mA Io = 1\mu APi = 0.84W Po = 2\mu WCi = 22nFLi = 4\mu H$	
rate totalisers added	<ol> <li>When installed purely as intrinsically safe equor zone 2, the ambient temperature range of BA377E-SS, BA314G, BA334G, BA364G, B</li> </ol>	
Modification New drawing Field mounted		
201 201 201 201 201	Title ETL Intrinsically Safe Control Draw E' and 'G' series externally power totalisers.	
1 2		Sheet 5 of 6 C1330-32

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7	3		
3	+		10. CAUTION Aluminium and stainless steel certification labels that are mounted on the BA317E, BA318E, BA337E, BA338E, BA367E, BA368E, BA377E, BA378E and BA388E externally powered rate totaliser enclosures may be marked with their maximum capacitance (8pF). The BA317E, BA318E, BA337E, BA338E, BA367E, BA368E, BA377E, BA378E and BA388E enclosures may also carry the following potential electrostatic warning:
			WARNING Potential electrostatic charging hazard clean only with a damp cloth
			AVERTISSEMENT Risque potentiel de charge électrostatique Nettoyer uniquement avec un chiffon humide
Modification		:	Alternatively, the enclosures may be manufactured from a conducting plastic per Article 250 of the National Electrical Code.
Date	1		
88			11. When mounting the BA317E, BA318E, BA337E, BA338E, BA367E, BA368E, BA377E, BA378E and the BA388E panel mounting externally powered rate totalisers in an enclosure to maintain Type 4 front panel rating:
	90	ING reserved.	Minimum panel thickness should be 2mm (0.08inches) Steel 3mm (0.12inches) Aluminium
	Cial Cial	England Pyright rese	Outside panel finish should be smooth, free from particles, inclusions, runs or build-ups around cut-out.
	2088B	ដ	Panel cut-out for BA317E, BA327E, BS367E and BA377E shall be: 90.0 x 43.5mm -0.0 +0.5mm (3.54 x 1.71 inches -0.00 +0.02)
		CITIEN confidential,	Two panel mounting clips are required and each shall be tightened to between:  20 & 22cNm (1.77 to 1.95inLb)
	7-	MICCIIIN ompany confic	Panel cut-out for BA318E, BA338E, BA368E, BA378E and BA388E shall be: 66.2 x 136.0mm-0.0 +0.5mm (2.60 x 5.35 inches =0.00 +0.02)
		Š	Four panel mounting clips are required and each shall be tightened to between; 20 & 22cNm (1.77 to 1.95inLb)
Appd.	8	3.3	
Ckd.		OL.	12. When mounting the BA317E-SS, BA337E-SS, BA367E-SS, and BA377E-SS panel mounting externally powered rate totalisers in an AEx e, AEx n, AEx p or AEx t certified enclosure, or an enclosure to maintain IP66 front panel rating, the panel cut-out shall be:
		added	92.0 +0.8/-0.0 x 45.0 +0.6/-0.0mm (3.62 +0.03/-0.0 x 1.77 +0.02/-0.0 inches)
		totalisers	4 panel mounting clamps are required and each shall be tightened to a minimum of 22cNm (1.95inLb).
Modification	drawing	mounted rate	When correctly installed, the BA317E-SS, BA337E-SS, BA367E-SS and BA377E-SS will not invalidate the certification of an AEx e, AEx n, AEx p or AEx t panel enclosure.
	5 New	6 Field	Title FTI Intrinsically Safe Control Drawing for Drawn Checked Scale
Date	05.0 201(	05.08 2016	'E' and 'G' series externally powered rate  SQ OL -
Iss.	-	2	totalisers.    Drawing No.   Sheet 6 of 5   Cl330-52
			<u>-</u>

Appd.		
Ckd.	INTERCONNECTIONS FOR EXTERNALLY POWERED RATE	TOTALISERS
	HAZARDOUS LOCATION	UNCLASSIFIED LOCATION See note 4
	INPUTS IN HAZARDOUS LOCATION	
Modification	DC Power is connected across terminals 1 & 2.  See note 7 5 Other connections are optional.	Non Hazardous Location Equipment
Oate	See note 7 9 A1-A4, C1-C4, RS1-RS2 may not be RS1	
Entres Iss. nd	RS2 C1 C3 C4 C2	See note 6
Engla copyright	Hazardous Location Equipment See note 5	
ESELVA B Hitchin company confidential,	INPUTS IN UNCLASSIFIED LOCATION  DC Power is connected across terminals 1 & 2.  Other connections are political.	Non Hazardous Location Equipment
Appd.	See note 7 7 8 Terminals P1-P2, A3 A4 A4-A4, C1-C4,	
Ckd.	10 RS1-RS2 may not be RS1 RS2 C1	
Modification  New drawing  Field mounted rate totalisers added	See notes 1, 2 & 7  Hazardous Location Equipment See note 5	See note 6
Date 15.06 2016 05.08 2016	Title ETL Nonincendive Control Drawing for 'E' and 'G' series externally powered rate totalisers.	Drawn Checked Scale SQ OL — Drawing No.
<u> s</u>	- Contains portered rate totalisers.	Sheet 1 of 6 Cl330—53 File No 330—53s01.dwg 05.08.16



Т.	_	Т-	I						
Appd.			Notes						
Ckd.			1. 1 and 2 input following tabl		powered rate totalisers with mode	I numbers and coding as	shown in the		
		NE PANEL MOUNTING INSTRUMENTS							
			Туре	Model Nos.	Division Marking	Zonal Marking (see note 8)	Ambient Temp. (see note 9)		
			1 input tachometer 1 input rate totaliser 1 input counter 1 input timer	BA317NE BA337NE BA367NE BA377NE	Class I Division 2 Groups A. B. C & D T5 Class II Division 2 Groups F & G Class III Division 2	Zone 2 AEx nA ic IIC TS Gc Zone 22 AEx ic to IIIC TB0°C De	-40°C to +60°C		
tion					E PANEL MOUNTING INSTRUMENTS	5			
Modification			Туре	Model Nos.	Division Marking	Zonal Marking	Ambient Temp.		
20			1 input tachometer	BA317E					
lss. Dote			1 input rate totaliser 2 input rate totaliser 1 input counter 2 input counter 1 input timer 2 input timer	BA318E BA337E BA338E BA388E BA368E BA368E BA377E BA378E	Class I Division 2 Groups A, B, C & D T5 Class It Division 2 Groups F & G Class III Division 2	None	-40°C to +70°C		
<u>-  </u>			2 tiput tinos	BA376E					
9	2	êd.	Туре	Model Nos.	E-SS PANEL MOUNTING INSTRUMEN	<u> </u>	4-1 T		
4	7	367 C			Division Marking	Zonal Marking	Ambient Temp.		
BESOCIA		copyright reserved	1 input tachometer 1 input rate totaliser 1 input counter 1 input timer	BA317E-SS BA337E-SS BA367E-SS BA377E-SS	Class   Division 2 Groups A, B, C & D T5 Class    Division 2 Groups F & G   Class     Division 2	None	-40°C to +70°C		
9.56									
	<u>,</u>	lentio	NG FIELD MOUNTING INSTRUMENTS  Type Model Nos. Division Marking Zonal Marking (see note 8)  1 input tachometer BA314NG						
5	<u>ځ</u> ز (	onfic			DIVISION MORNING	Zonal Marking (see note 8)	Ambient Temp. (see note 9)		
		o kupdmoo	1 input tochometer 1 input rate totaliser 2 input rate totaliser 2 input counter 2 input timer	BA314NG BA334NG BA384NG BA364NG BA374NG	Class   Division 2 Groups A, B, C & D T5 Class II Division 2 Groups F & G Class III Division 2	Zone 2 AEx nA ic IIC T5 Gc Zone 22 AEx ic to IIIC TBO°C Oc	-40°C to +60°C		
	_]	S			G FIELD MOUNTING INSTRUMENTS				
T		<b>M</b>	Туре	Model Nos.	Division Marking	Zonal Marking	Ambient Temp.		
	al CB	OL 3.3	1 input tachometer 1 input rate totaliser 2 input rate totaliser 2 input counter 2 input timer	8A314G BA334G BA384G BA364G BA374G	Class I Division 2 Groups A, 6, C & D T5 Class II Division 2 Groups F & G Class III Division 2	None	-40°C to +70°C		
7	_			<u> </u>		,-,.			
		added			E FIELD MOUNTING INSTRUMENTS				
		Sers	Туре	Model Nos.	Division Marking	Zonal Morking	Ambient Temp.		
		rate totalisers	1 input tachometer 1 input rate totaliser 2 input rate totaliser 2 input counter 2 input timer	BA314E 8A334E 6A384E 8A364E 8A374E	Class   Division 2 Groups A, B, C & D T5 Class    Division 2 Groups F & G Class    Division 2	None	−40°C to +70°C		
	New drawing	Field mounted							
	2016	05.08 2016	Title		onincendive	Drown Checke	d Scale		
16	7	\$ X	Control Drawing for 'E' and 'G' series  externally powered rate totalisers.  SQ OL —  Drawing No. 01770 F7						
	-	7	extern	any powe	rea rate totomsers.	Drawing No. Sheet 3 of 6	330-53		
<u></u>			<del> </del>			File No. 330—536			

_							
Annd							
Ckd		T-	2.	Terminals 7, 8, 9 and 10 only exist on 2 input instruments.			
			3.	Nonincendive field wiring installations shall be in accordance w ANSI/NFPA 70. The Nonincendive Field Wiring concept allow Field Apparatus with Associated Nonincendive Field Wiring Ap methods permitted for unclassified locations. Installations in C the Canadian Electrical Code C22.2.	s interconne paratus usin	ection of Nor g any of the	nincendive wiring
Modification			4.	Classified location equipment shall br NRTL Approved Nonince simple apparatus as defined in ANSI/NFPA70. For Canadian is equipment shall be NRTL or CSA Approved Nonincendive Field	nstallations o	classified lo	ratus or cation
Date							
\$3.			5.	Simple Apparatus as defined in the National Electrical Code AN in Canada by the Canadian Electrical Code C22.2 or as defined		), 3r for insta	allations
		company confidential, copyright reserved.	6.	The unclassified location equipment shall not use or generate n	nore than 25	60V rms or 2	50V dc.
Appd.	85	69					
Ckd.	강	9					
Modification	New drawing	Field mounted rate totalisers added					
Date	15.06 2016		Title	ETL Nonincendive Control Drawing for 'E' and 'G' series	Drawn SQ	Checked OL	Scale —
58,				externally powered rate totalisers.	Drawing No. Sheet 4 of	17155	0-53

			<u> </u>		
6	Appd.		7. Safety parameters		
73	ć. Kg		DC Power terminals 1 & 2	Terminals RS1-RS2, (optional reset input)	
	İ		Ui = 30V Ii = 100mA	Ui = 30V Uo = 3.8V Io = 1mA	
Modification			Terminals 4,5,6 (input A for models in notes 5 and 6), terminals 8,9,10 (input b for models in note 6).  Ui = 30V Uo = 1.1V Io = 0.5mA	Terminal 3,4,5,6 (for models in notes 5 and 6), terminals 7,8,9,10 (input b with terminals for models in note 6).  Ui = 15V Uo = 10.5V Io = 9.2mA	
Date	3		Optional pulse output terminals	Optional 4-20mA output terminals	
<u>0</u>	2		P1 & P2	C1, C2, C3 and C4	
	V4 385	FILCRIN Company canfidential, copyright reserved.		Ui = 30V Uo = 0 Io = 0  ment push button contacts which are nonincendive.	
Appd.	eg B	3.3		ve equipment, the ambient temperature range of BA377NE, BA314NG, BA334NG, BA364NG, Ta ≤ +70°C.	
Ckd.	7	or			
Modification	New drawing	Field mounted rate totalisers added			
Date	15.06 2016	05.08 2016	Title ETL Nonincendive Control Drawing for 'E' and		
<u>ISS.</u>	-	2	externally powered rate tot		3

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	- Pdd		
$\vdash$	1-	+-	40 CANTION The DAGATE BAGADE DAGGTE DAGGTE DAGGTE DAGGTE DAGGTE
3	j S		10. CAUTION The BA317E, BA318E, BA337E, BA338E, BA367E, BA368E, BA377E, BA378E and the BA388E Externally Powered rate totaliser enclosures may carry the
$\vdash$	+	+	following potential electrostatic warning:
			WARNING
			Potential electrostatic charging hazard clean only with a damp cloth
			AVERTISSEMENT
			Risque potentiel de charge électrostatique Nettoyer uniquement
8	5		avec un chiffon humide
Modification	5		Alternatively, the enclosures may be manufactured from a conducting plastic per Article
1 20			250 of the National Electrical Code.
$\vdash$	-	+	
450	4	4_	
8			
			11. When mounting the BA317E, BA318E, BA337E, BA338E, BA367E, BA368E, BA377E,
	th.	τċ	BA378E, BA388E, BA317E-SS, BA337E-SS, BA367E-SS, BA377E-SS, BA317NE, BA337NE, BA367NE & BA377NE panel mounting Externally Powered Rate Totalisers
	\$_	na reserved.	in an enclosure to maintain Type 4 front panel rating:
	9		Minimum panel thickness should be 2mm (0.08inches) Steel
	8	Engro copyright	3mm (0.12inches) Aluminium
	BSSOCIA Foolga	다 (연원)	Outside panel finish should be smooth, free from particles, inclusions,
	ď	tial,	runs or build-ups around cut-out.
15		confidential,	Panel cut-out for BA317E, BA337E, BA367E, and BA377E shall be:
15	≥{ ₹		90.0 x 43.5mm -0.0 +0.5mm (3.54 x 1.71 inches -0.00 +0.02)
	T	лиралу	Two panel mounting clips are required for BA317E, BA337E, BA367E, and BA377E
		сошр	and each shall be tightened to between: 20 & 22cNm (1.77 to 1.95inLb)
`		Ū	Panel cut-out for BA318E, BA338E, BA368E, BA378E, and BA388E shall be:
H	_		136.0 x 66.2mm -0.0 +0.5mm (5.35 x 2.60 inches -0.00 +0.02)
Appd.	8	83	Four panel mounting clips are required for BA318E, BA338E, BA368E, BA378E, and
$\vdash$	_	Н	BA388E and each shall be tightened to between: 20 & 22cNm (1.77 to 1.95inLb)
Ckd.	占	님	Panel cut-out for BA317E-SS, BA337E-SS, BA367E-SS, BA377E-SS,
		added	BA317NE, BA337NE, BA367NE & BA377NE shall be: (92.0mm -0.0 +0.8) x (45.0mm -0.0 +0.6)
			(3.62 inches -0.00 +0.03) x (1.77 inches - 0.00 +0.02)
		totalisers	Four panel mounting clips are required for BA317E-SS, BA337E-SS, BA367E-SS,
			BA377E-SS, BA317NE, BA337NE, BA367NE & BA377NE and each shall be
		1 rote	tightened to at least: 22cNm (1.95inLb)
ţi Şi	drawing	mounted	
Modification			
	New	Field	
ate	5.06 016	05.08 2016	Title ETL Nonincendive Drawn Checked Scale SQ OL —
	1,2	100	Ordernally, powered rate totalisans
88	-	7	Sheet 6 of 6 C1330—53