

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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Applicant:	BEKA associates Ltd Old Charlton Road	Mar	nufacturer:	BEKA associates Ltd Old Charlton Road	
Address:	Hitchin Herts SG5 2DA	Ado	lress:	Hitchin Herts SG5 2DA	
Country:	United Kingdom	Cou	untry:	United Kingdom	
Party Author Report Issui	rized To Apply Mark: ng Office:	Same as Manufacturer Intertek Testing & Certificat	tion Ltd., Lea	therhead	
Control Number: 4008610		Authorized by:	blellen Judabroan		
			for L. Ma	tthew Snyder, Certification Manager	
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This document supersedes all previous Authorizations to Mark for the noted Report Number.

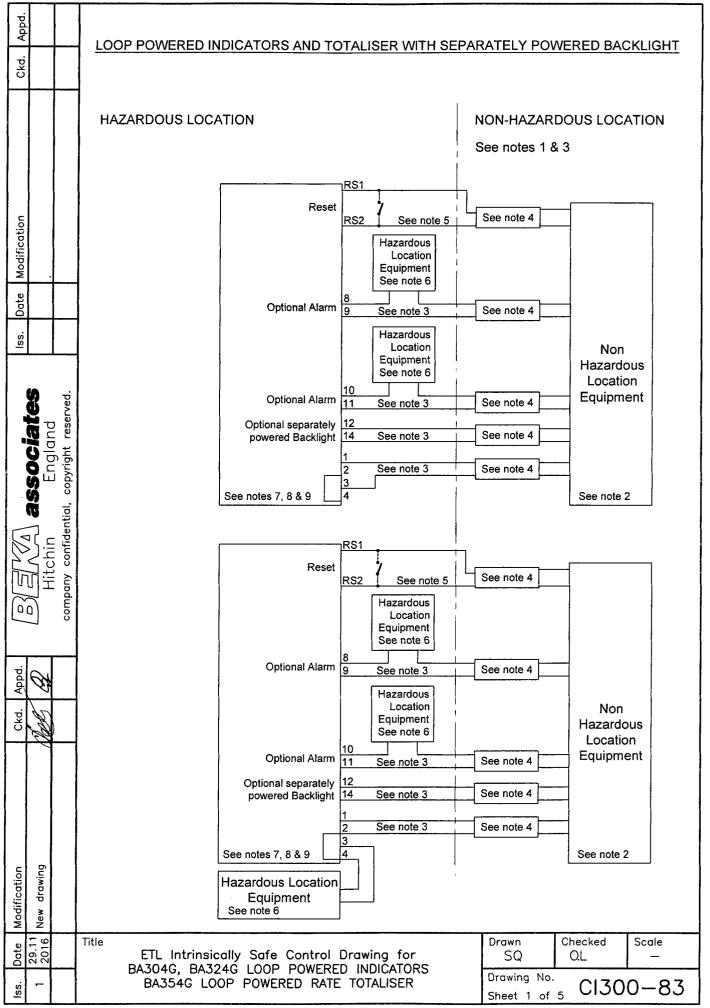
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Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

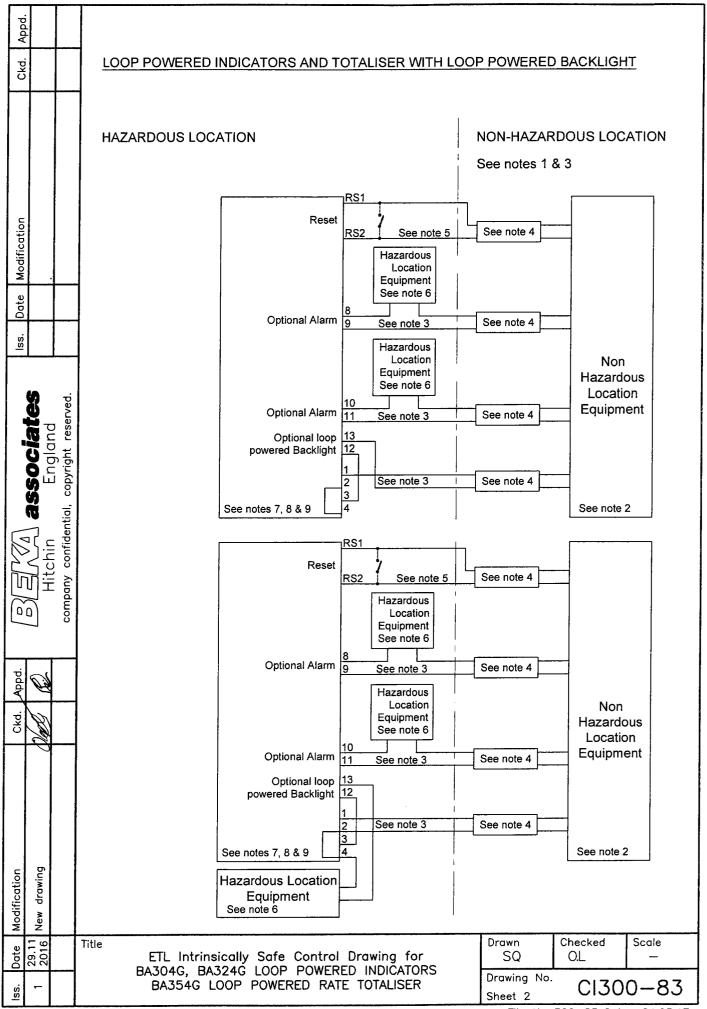
AUTHORIZATION TO MARK

intertek Total Quality. Assured.

Standard(s):	Explosive Atmospheres – Part 0: Equipment – General Requirements [UL 60079-0:2019 Ed.7+R:15Apr2020]
	Explosive Atmospheres - Part 11: Equipment Protection By Intrinsic Safety 'i' [UL 60079-11:2013 Ed.6 +R:28Mar2014]
	Explosive Atmospheres - Part 0: Equipment - General Requirements [CSA C22.2#60079-0:2015 Ed.3]
	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i" (R2018) [CSA C22.2#60079- 11:2014 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]
	Enclosures for use in Class II, Division 1, Groups E, F, and G Hazardous Locations [CSA C22.2#25:2017 Ed.4]
	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;U2]
	Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements>Valid without technical revision: 01Jan2022< [UL 61010-1:2012 Ed.3+R:29Apr2016]
	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part 1: General Requirements [CSA C22.2#61010-1-12:2012 Ed.3+U1;U2;A1]
Product:	4 and 5 Digit Loop Powered Indicators and Loop Powered Rate Totaliser for use in: Class I Division 1 Groups A B C D T5 -40°C \leq Ta \leq +70°C Class II Division 1 Groups E F G -40°C \leq Ta \leq +60°C Class III Division 1 -40°C \leq Ta \leq +60°C Class I Zone 0 AEx ia IIC T5 Ga -40°C \leq Ta \leq +70°C Zone 20 AEx ia IIIC T80°C Da -40°C \leq Ta \leq +60°C Ex ia IIC T5 Ga -40°C \leq Ta \leq +70°C Ex ia IIIC T80°C Da -40°C \leq Ta \leq +60°C and Class I Division 2 Groups A B C D T5 Class II Division 2 Groups F G Class III Division 2 -40°C \leq Ta \leq +70°C
Brand Name:	BEKA
Models:	BA304G, BA324G, BA354G.



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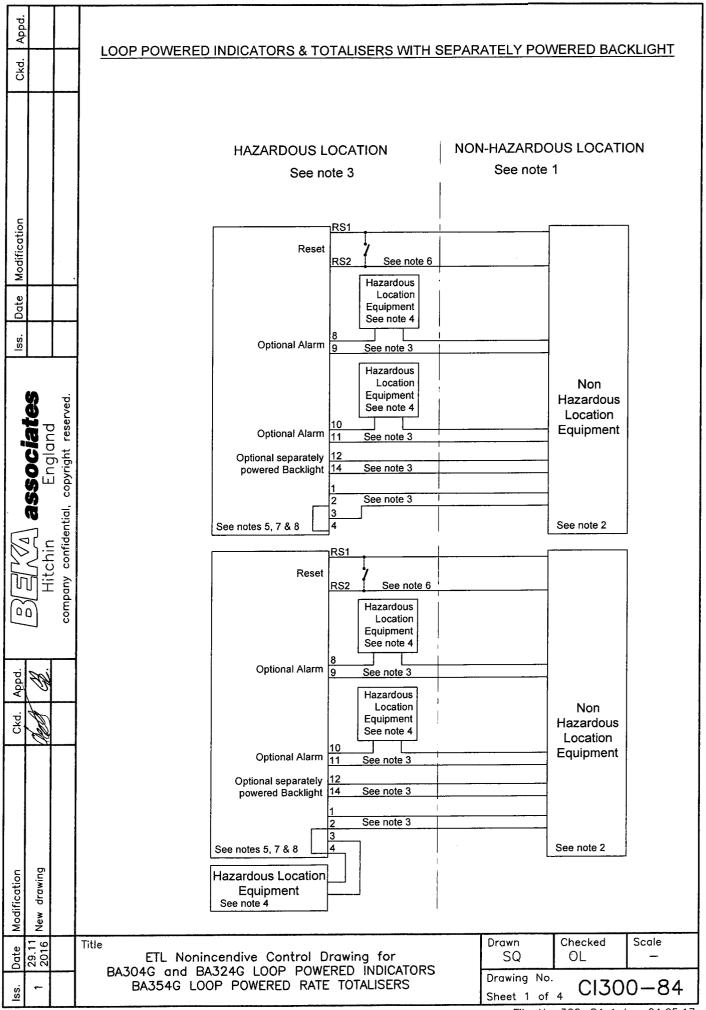


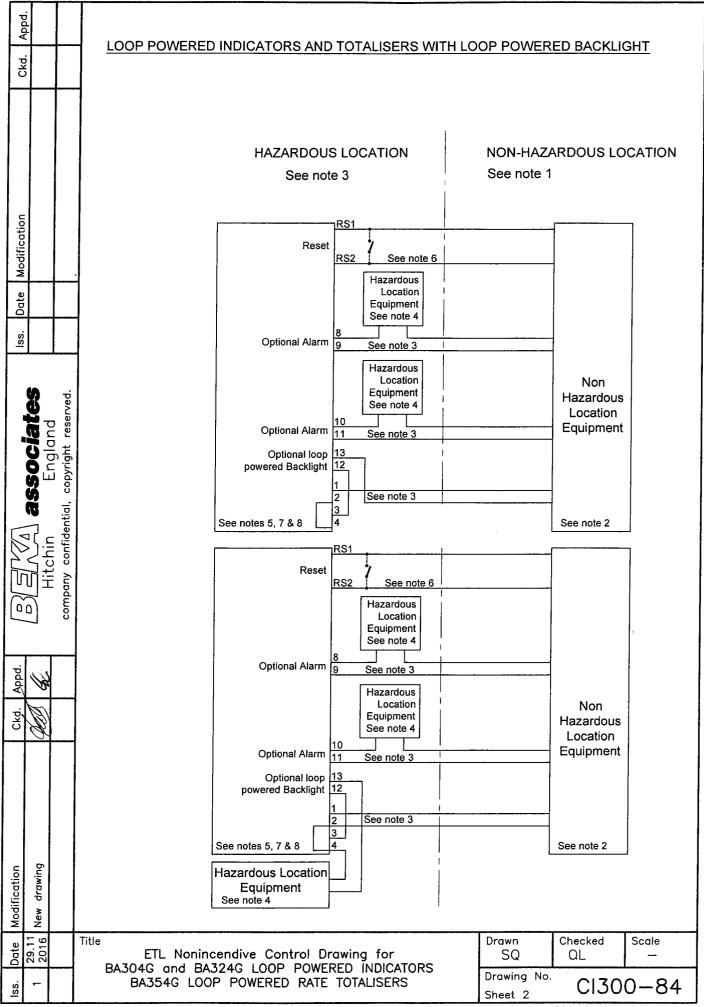
Appd.							
Ckd.	Note	es					
0	n F N	manufa For inst NRTL c	cturers instructions shall allations in Canada the a	rs and galvanic isolators shall be followed when installing thi associated protective barriers a manufacturers installation dra	s equipment ind galvanic	isolators sh	all be
Modification .	2. T	The und	classified location equipn	nent shall not use or generate r	more than 25	50V rms or 2	250V dc.
Iss. Date M	s	System	s for Hazardous (Classifi	nce with ANSI/ISA RP 12.06.01 (ed) Locations' and the Nationa in accordance with the Canadia	I Electrical C	Code ANSI/N	NFPA 70.
atos Id eserved.			-	hannel associated protective b n the following requirements:	arrier or galv	vanic isolato	r with
aht a		Uo	equal or less than	The lowest Ui of the NRTL of installed in the loop.	or CSA appre	oved appara	atus
ASSO En Eid, copyri		ю	equal or less than	The lowest li of the NRTL of installed in the loop.	r CSA appro	ved apparat	us
tchin confidential		Po	equal or less than	The lowest Pi of the NRTL of installed in the loop.	or CSA appro	oved appara	itus
Hit Company		Lo	equal or greater than	The sum of the cable induct inductances Li of each NRT apparatus in the loop.			
Ckd. Appd.		Co	equal or greater than	The sum of the cable capac capacitance Ci of each NRT apparatus in the loop.			
	TI or re	'hey ma r galvai equirem	ay be connected to one s nic isolator as defined in nents for simple apparatu	e only fitted to BA354G Rate T ingle channel or one two chan note 4 And / or to a single pol us as defined in the National El the Canadian Electrical Code C	nel associate e switch com ectrical Code	plying with	
Modification New drawing	<u></u>				.		
Date 29.11 2016	Title	BA3	TL Intrinsically Safe C 804G, BA324G LOOP F	POWERED INDICATORS	Drawn SQ Drawing No.	Checked QL	Scale —
- <mark>1</mark> 85.		E	BA354G LOOP POWERE	U KAIL IUIALISEK	Sheet 3	<u> </u>	0-83 dwg 29.11.16

	;	Τ	[······································			
Appd.						e National Electrical Co		0,	
Ckd			OR:	itions in Ca	nada by tr	ne Canadian Electrical C	ode C22.2		
			Ui equ	al or greate	er than	NRTL or CSA ap	proved appa	ıratus	
			li equ	al or greate	er than	The highest lo of the N powering the loop.	RTL or CSA app	roved appar	atus
Б			Pi equ	al or greate	er than	The highest Po of the N powering the loop.	NRTL or CSA ap	proved appa	ratus
Modification			app pow	ne NRTL or roved appa ering the lo	aratus oop	The sum of the cable ir	ductoness and t	ha intornal	
s. Date			equ	al or greate		inductances Li of each apparatus in the loop.			
lss.	\$	ed.	appi pow	e NRTL or roved appa ering the lo al or greate	iratus pop	The sum of the cable ca	apacitances and	the internal	
	Enaland	00	Uqu.			capacitances Ci of each apparatus in the loop.			
	<u>「</u> 」 Hitchin	any confidential,	7. Loop power shown in the			o powered rate totalisers	with coding and	model num	bers as
	5	comp(ſ		'G' FIEL	D MOUNTING INSTRUMENTS			
		ŏ	Туре	Model Nos.		Division Marking	Zonal Marking	An	nbient Temp.
Appd.	G		Loop powered indicators Loop powered rate totaliser	BA304G BA324G BA354G	Gas: Class I Divis	ion 1 Groups A, B, C & D T5	Gas: Class Zone 0 AEx ic	IIC T5 Ga -40	rC to +70°C
Ckd.	la l				Dust: Class II Divis Class III Divis	sion 1 Groups E, F & G sion 1	Dust: Zone 20 AEx ia IIIC Ti	80°C Da -40	℃ to +60℃
Modification	New drawing $harrow$	7		re manufac	tured from	24G Indicators and the B n conducting plastic per /	Article 250 of the		
lss. Date	1 29.11 2016		BA304G,	BA324G L	.00P PO\	trol Drawing for NERED INDICATORS RATE TOTALISER	Drawn SQ Drawing No	Checked OL CI30	Scale - 0-83
<u> </u>							Sheet 4		

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And	; 2 2											
Ckd.			7 9). Safety para								
Ď	; 	-	-	4/20mA	nput te	rminals 1, 2, 3 & 4				out terminals vered backlig		2 & 13
				Ui li Pi Uc Io Pc	= = = =	30V 200mA 0.84W 1.1V 3mA 4.5mW		Ui Ii Pi Uo Io Po		30V 200mA 0.84W 1.1V 3mA 4.5mW		
te Modification				Ci Li Co Lo		5.4nF 0.016mH 60.6nF 0.78mH		Ci Li Co Lo	= = =	5.4nF 0.016mH 60.6nF 0.78mH		
lss. Date				Separate terminals		ered backlight 4.	ŀ	Alarm	termir	als 8, 9, 10 a	and 11	
1	associates	copyright reserved.		Ui li Pi	= =	30V 200mA 0.84W		Ui Ii Pi Uo Io Po		30V 200mA 0.84W 1.47V 1.0µA 2.2µW		
	-	ential,		Ci Li Co Lo	= = =	3.3nF 0.008mH 63nF 0.79mH		Ci Li Co Lo	= = =	0nF 0.008mH 66nF 0.79mH		
\sim	IJï					RS1 & RS2 aliser only.						
Ckd. Appd.		cou		Ui Ii Vo Io Po Ci Li Co		30V 200mA 0.84W 6V 2.5mA 3.8mW 0nF 0.008mH 66nF 0.79mH						
Modification	New drawing											
Date	29.11 2016		Title	BA304G, B/	4324G	Safe Control Di LOOP POWERED	INDICATO	DRS		Drawn SQ Drawing No.	Checked QL	Scale -
lss.	-			BA354G	LUUP	POWERED RATE	IUIALISE	7		Sheet 5	<u> </u>	0-83





Appd	Notes				
Ckd.	1. The unclassi	fied locatio	n equipment shall not use or gene	erate more than 25	50V rms or 250V dc.
чо	ANSI/NFPA Field Wiring wiring metho	70. The N Apparatus ods permitte	ng installations shall be in accorda Ionincendive Field Wiring concept with Associated Nonincendive Fie ed for unclasified locations. Insta trical Code C22.2.	allows interconne d Wiring Apparati	ection of Nonincendi us using any of the
lss. Date Modification	simple appar	ratus as de	pment shall be NRTL Approved No fined in ANSI/NFPA70. For Can TL or CSA Approved Nonincendive	adian installations	classified location
ates nd reserved.			efined in the National Electrical Co In Electrical Code C22.2 or as defi), or for installations
SSOCIAI England copyright rese	5. Loop powere shown in the		s and loop powered rate totalisers ow.	with model numbe	ers and coding as
	Туре	Model Nos.	'G' FIELD MOUNTING INSTRUMENT: Division Marking	S Zonal Marking	Ambient Temp.
B임립시A as Hitchin company confidential, c	Type Loop powered indicators Loop powered rate totaliser	Model Nos. BA304G BA324G BA354G			Ambient Temp. -40°C to +70°C
Itchin v confidential,	Loop powered indicators Loop powered rate totaliser 6. Reset termina They may be	BA304G BA324G BA354G als RS1 an connected	Division Marking Class I Division 2 Groups A, B, C & D T5 Class II Division 2 Groups F & G	Zonal Marking None IG Rate Totaliser. J Wiring Apparatus	-40°C to +70°C
Appd. BELOND A. Hitchin company confidential,	 Loop powered indicators Loop powered rate totaliser 6. Reset termina They may be Nonincendive 7. CAUTION Th 	BA304G BA324G BA354G als RS1 an connected Field Wiri	Division Marking Class I Division 2 Groups A, B, C & D T5 Class II Division 2 Groups F & G Class III Division 2 d RS2 are only fitted to the BA354 I to Associated Nonincendive Field	Zonal Marking None G Rate Totaliser. J Wiring Apparatus such as a single p 54G Rate Totalise	-40°C to +70°C s, pole switch. er enclosures
Modification Ckd. Appd. D D D Appl. Ap	Loop powered indicators Loop powered rate totaliser 6. Reset termina They may be Nonincendive 7. CAUTION Th are manufact	BA304G BA324G BA354G als RS1 an connected Field Wiri	Division Marking Class I Division 2 Groups A, B, C & D T5 Class II Division 2 Groups F & G Class III Division 2 d RS2 are only fitted to the BA354 I to Associated Nonincendive Field ng Apparatus or simple apparatus 6, BA324G Indicators and the BA3	Zonal Marking None G Rate Totaliser. d Wiring Apparatus such as a single p 54G Rate Totalise of the National Ele	s, pole switch. er enclosures ectrical Code.
Modification Ckd. Appd. D D A New drawing M M M A A New drawing M M A A	Loop powered indicators Loop powered rate totaliser 6. Reset termina They may be Nonincendive 7. CAUTION Th are manufact	BA304G BA324G BA324G BA354G als RS1 an connected Field Wiri ne BA304G tured from	Division Marking Class I Division 2 Groups A, B, C & D T5 Class II Division 2 Groups F & G Class III Division 2 d RS2 are only fitted to the BA354 I to Associated Nonincendive Field ng Apparatus or simple apparatus 6, BA324G Indicators and the BA3	Zonal Marking None G Rate Totaliser. d Wiring Apparatus such as a single p 54G Rate Totalise of the National Ele	-40°C to +70°C s, pole switch. er enclosures

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File No. 300-84s3 dwg. 04 05 17				
	File	No	300-84s3.dwa	04.05.17

Appd.										
Ckd	8. Safety param 4/20mA ir		minals 1, 2, 3 & 4		4/20mA input terminals 1, 2, 3, 4, 12 & & & & & & & & & & & & & & & & & &					
	li Uo Io	= = =	200mA 1.1V 3mA	li Uo Io	= = =	200mA 1.1V 3mA				
Modification	Separately terminals		red backlight 4.	Alarm	n termi	inals 8, 9, 10 and 11				
Date Mod	Ui	=	30V	Ui li Uo lo	= = =	30V 200mA 1.47V 1.0µА				
			RS1 & RS2 354NG rate totalisers o	nly.						
B실립시A associates Hitchin England company confidential, copyright reserved.	Ui Uo Io	=	4.3V 6V 2.5mA							
UKG. Appa.										
Modification New drawing										
Date 29.11 2016	Title ETL Nonin BA304G and BA	cendiv 324G	e Control Drawing fo LOOP POWERED IND	or ICATORS		Drawn Checked Scale SQ OL -				
· - !			WERED RATE TOTALIS			Drawing No. Sheet 4 CI300-8				

CI300-84