

Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

BA201 Communications Isolator.

AIS/ I, II, III / ABCDEFG – Entity; Cl201-12 [0/I] [AEx ia] IIC – Entity; Cl201-12 NI / I / 2 / ABCD / T5 Ta = 60°C I / 2 / IIC / T5 Ta = 60°C

Entity parameters

Terminal	Uo (V)	lo (mA)	Po (W)	Co (nF)	Lo (mH)
1-3	21.2	96	0.51	183	3.2
2-3	13.7	84	0.45	780	4.1
1-2-3	21.2	159	0.72	183	1.0

Special conditions of Use

Equipment Ratings:

Associated intrinsically safe apparatus for connection to Class I, II, and III, Division 1 and 2, Groups A, B, C, D, E, F and G; and Class I, Zone 0, Group IIC Hazardous (Classified) Locations when installed in accordance with Control Drawing Cl201-12.

Nonincendive apparatus for use in Class I, Division , Groups A, B, C and D; and Class I, Zone 2, Hazardous (Classified) Locations. Temperature Class T5 Ta = 60°C

FM Approved for:

BEKA associates Hitchin, Hertfordshire SG5 2DA, United Kingdom

^{1.} The signal conditioner shall be installed within a tool secured enclosure in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application



This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600

1998

Class 3610

2010

Class 3810

2005

Original Project ID: 3029711

Approval Granted: November 30, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number

Date

Report Number

Date

071207

April 25, 2008

101217

Mary 16,2011

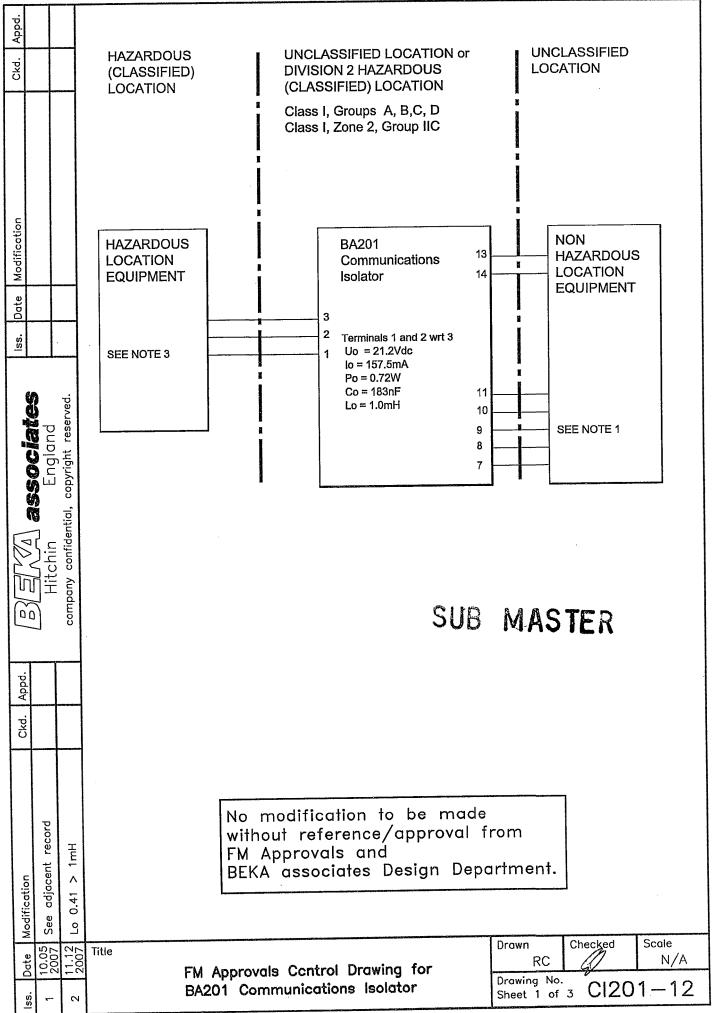
FM Approvals LLC

Timothy 🕽 Adam

Technical Team Manager

March 16, 2011

Date



Appd.					SUB-MASTER						
Ckd.				1.	The unclassified location equipment connected to the BA201 shall not use or generate more than 250V rms or 250V dc.						
				2.	The installation shall be in accordance with ANSI/ISA RP 12.06.01 'Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations' and the National Electrical Code ANSI/NFPA 70.						
					Installations in Canada shall be in accordance with the Canadian Electrical Code C22.2						
r.				3.	The Hazardous Location equipment may be:						
Modification		•			Simple apparatus e.g. mechanically activated switches						
Date Moo					OR FM approved equipment, or for installations in Canada CFM approved equipment, both having entity parameters complying with the following requirements:						
lss.					Ui equal to or greater than Uo or Vt li equal to or greater than lo or It Lcable + Li equal to or less than Lo Ccable +Ci equal to or less than Co						
8		copyright reserved.		4.	The BA201 has two intrinsically safe outputs connected to terminals 1 and 2 respectively, both outputs share common terminal 3.						
T-172				5.	BA484D or BA488C Serial Text Displays FM File 3025514						
1/2/		confidential,		6.	Lcable equal to or less than 4.1mH Ccable equal to or less than 780nF						
		company		7.	For terminals 1 and 3 of BA201 Lcable equal to or less than 3.2mH – sum of Li Ccable equal to or less than 183nF – sum of Ci						
Appd.					For terminals 2 and 3 of BA201 Lcable equal to or less than 4.1mH Ccable equal to or less than 780nF						
Ckd				8.	Up to two BA484D and/or BA488C serial text displays may be connected to one BA201 communications isolator.						
		(x2),	100.000	Up to four BA484D and/or BA488C serial text displays may be connected to one BA201 communications isolator.							
Modification	See adjacent record	1		10.	10. When the BA201 is installed in a Division 2 or Zone 2 Hazardous location, a warning label must be prominently affixed near the BA201 which warns that the BA201 must not be removed or inserted unless the area is known to be nonhazardous.						
Date	10.0 200.0 200.0		Title		FM Approvals Central Drawing for Drawn Checked Scale RC N/A						
lss.					BA201 Communications Isolator Drawing No. Sheet 3 of 3 C 201-12						