

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:

BA386ab. LED BEACON

IS / I / 1 / ABCD / T4 Ta = 60°C - Cl386-12; Entity
IS / I / 0 / AEx ia / IIC / T4 Ta = 60°C - Cl386-12; Entity
IS / I / 1 / CD / T4 Ta = 60°C - Cl386-13; Entity
IS / I / 0 / AEx ia / IIB / T4 Ta = 60°C - Cl386-13; Entity
IS / I / 0 / AEx ia / IIB / T4 Ta = 60°C - Cl386-13; Entity
II / 1 / 2 / ABCD / T4 Ta = 60°C - Cl386-12, Cl386-13
II / I / 2 / IIC / T4 Ta = 60°C - Cl386-12, Cl386-13
Entity and Nonincendive Parameters: Per Control Drawings Cl1386-12 and Cl386-13
a = Color: R (red), A (amber), G (green) or other.
b = Accessories: Legend and Combining kit.

Equipment Ratings:

Intrinsically safe for Class I, Division 1, Groups A, B, C and D; Intrinsically Safe for Class I, Zone 0 Group IIC Hazardous (Classified) Locations when installed per Control Drawing Cl386-12.

Intrinsically safe for Class I, Division Ť, Groups C and D; Intrinsically Safe for Class I, Zone 0 Group IIB Hazardous (Classified) Locations when installed per Control Drawing Cl386-13.

Nonincendive for Class I, Division 2, Groups A, B, C and D; Nonincendive for Class I, Zone 2, Group IIC when installed per Control Drawing Cl386-12 or Cl386-13.

Temperature Class T4 at 60°C ambient.

FM Approved for:

BEKA associates Hitchin, Hertfordshire SG5 2DA, United Kingdom



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

Class 3600	199	98
Class 3610	20 ⁻	10
Class 3611	200)4
Class 3810	200)5

Original Project ID: 3014996

Approval Granted: December 17, 2002

Subsequent Revision Reports / Date Approval Amended

Report Number 101217

Date M. V. Klann Report Number

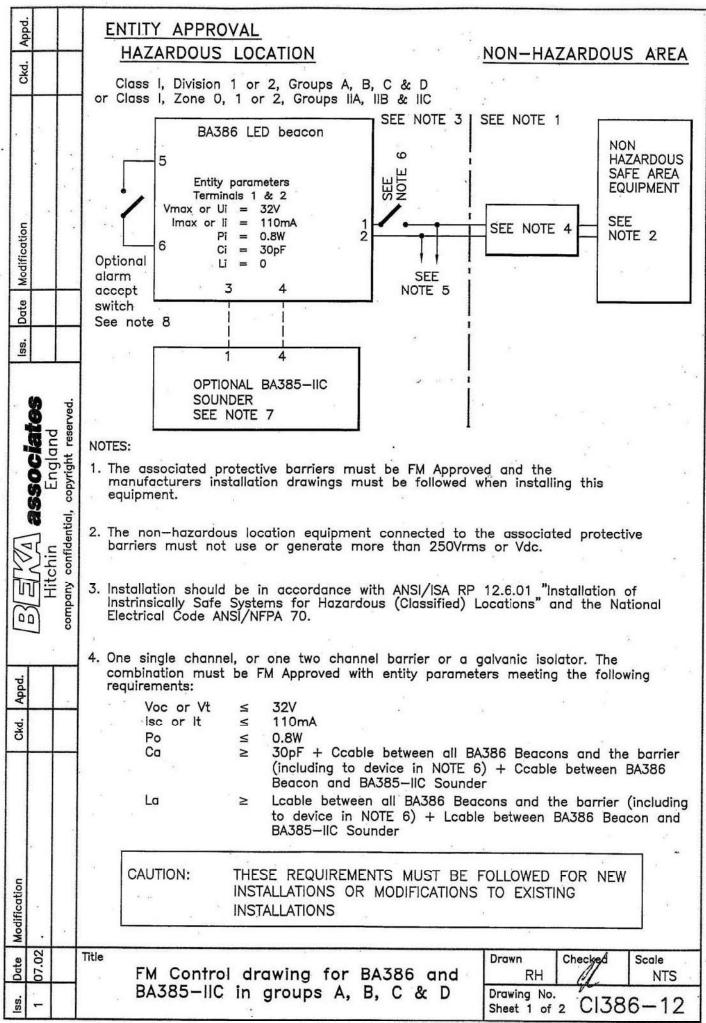
Date

FM Approvals LLC

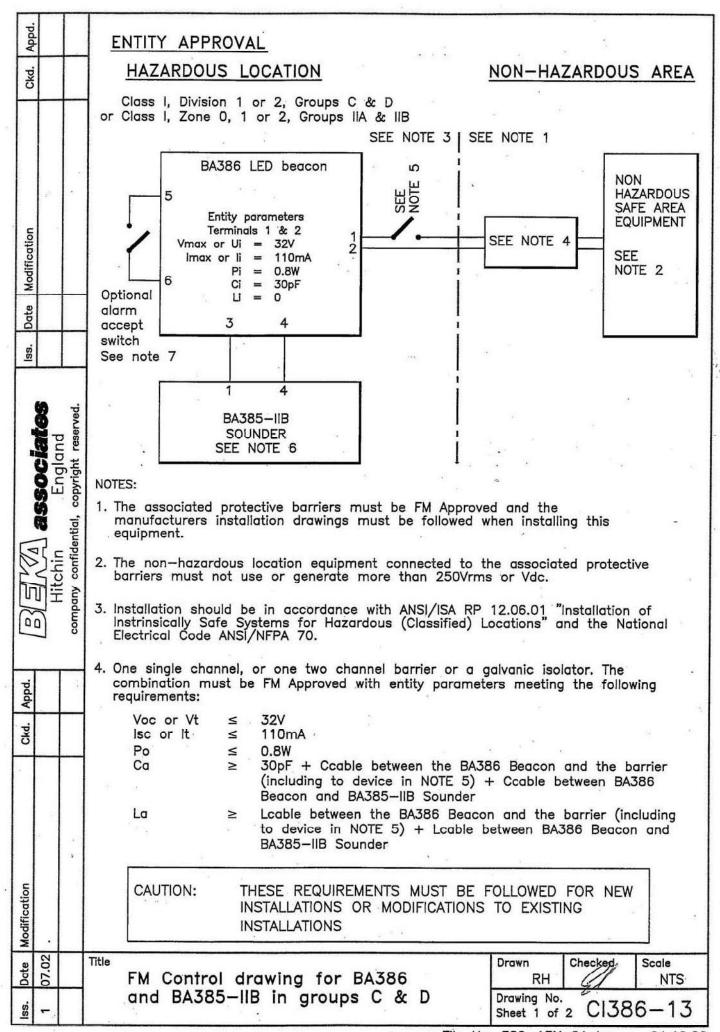
Timothy J Adam

Technical Team Manager

March 16, 2011



Appd.					
Ckd.			1		7
0			5.	Terminals 1 and 2 of up to three BA386 beacons may be connected in parallel.	
			6.	BA386 beacon may be controlled by simple apparatus switches or FM Approved equipment with Entity parameters: Vmax \geq 32V, Imax \geq 110mA, Pmax \geq 0.8W, Ci = 0yF, Li = 0mH or Voc = 0V, Isc = 0mA, Ca \geq 1000yF, La \geq 1000mH	
Modification			7.	One FM Approved BA385—IIC Sounder (FM file 3001558) may be connected to terminals 3 & 4 of a single BA386 beacon.	
Date	1		8.	Alarm accept terminals may be connected to simple apparatus switches or FM Approved equipment with Entity parameters of Voc = 0V, Isc = 0mA, Ca \geq 1000uF, La \geq 1000mH and with cable length not greater than 5000ft (1500m).	4
lss.			9.	The BA386 is approved as nonincendive suitable for use in Class I, Division 2, Groups A, B, C and D when connected to an FM approved associated	1.
	associates Fooland	copyrigh		apparatus having noincendive parameters Voc ≤ 32V, Isc ≤ 132mA and capacitance and inductance requirements in Note 4 are met. The BA386 can also be installed in Division 2 when using PLTC or ITC cables and cable entry Killark CGUAxxM20 following National Electrical Code (ANSI/NFPA70) and the voltages do not exceed 32Vdc. This installation is restricted to one BA386 and one BA385 and the external silence switch cannot be part of the system.	
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Modification					
	02	\dashv	Title	Drawn Checkedy Scale	
Date	07.02	\dashv	14	FM Control drawing for BA386 and RH NTS	
lss.	-			BA385-IIC in groups A, B, C & D Drawing No. Sheet 2 of 2 C1386-12	2



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Appd.				
Ckd.			5.	BA386 beacon may be controlled by simple apparatus switches or FM Approved equipment with Entity parameters: Vmax ≥ 32V, lmax ≥ 110mA, Pmax ≥ 0.8W, Ci = 0yF, Li = 0mH or Voc = 0V, lsc = 0mA, Ca ≥ 1000yF, La ≥ 1000mH
Modification				One FM Approved BA385-IIB Sounder (FM 3001558) may be connected to terminals 3 & 4 of a single BA386 beacon. Alarm accept terminals may be connected to simple apparatus switches or FM Approved equipment with Entity parameters of Voc = 0V, Isc = 0mA, Ca \geq 1000µF, La \geq 1000mH and with cable length not greater than
lss. Date Modif			8.	The BA386 is approved as nonincendive suitable for use in Class I, Division 2, Groups C and D when connected to an FM approved associated apparatus having noincendive parameters Voc ≤ 32V,
	#SSOCIATOS Fredand	copyright reserved.		Isc ≤ 132mÅ and capacitance and inductance requirements in Note 4 are met. The BA386 can also be installed in Division 2 when using PLTC or ITC cables and cable entry Killark CGUAxxM20 following National Electrical Code (ANSI/NFPA70) and the voltages do not exceed 32Vdc. This installation is restricted to one BA386 and one BA385 and the external silence switch cannot be part of the system.
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Ckd.				
Modification				
Date Mo	07.02		Title	FM Control drawing for BA386 Drawn Checked Scale RH NTS
lss.	-			and BA385-IIB in groups C & D Drawing No. Sheet 2 of 2 C1386-13