



Member of the FM Global Group

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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

I. Intrinsically Safe (Div. 1) Version

BES G06MD-GNX10B-EV02-EEX and BES M08MD-GNX10B-EV02-EEX. Intrinsically Safe Proximity Switches.

IS / I, II, III / 1 / ABCDEFG / T6 Ta = 70°C; Type 4X; IP67 – CD1; Entity

Entity Parameters:

Model No.	V _{max}	I _{max}	P _{max}	C _i	L _i
BES G06MD-GNX10B-EV02-EEX	15V	50mA	120mW	80nF	70µH
BES M08MD-GNX10B-EV02-EEX	15V	50mA	120mW	80nF	70µH

II. Intrinsically Safe (Div. 1) Version

Inductive NAMUR Proximity Switches.

IS / I, II, III / 1 / ABCDEFG / T6 Ta = 70°C; T5 Ta = 80°C – CD1; Entity; IP67

Entity Parameters:

Model No.	V _{max}	I _{max}	P _{max}	C _i	L _i
BES M12ME-GNX40B-S04G-EEX	15V	50mA	120mW	210nF	115µH
BES M18ME1-GNX80B-S04G-EEX	15V	50mA	120mW	200nF	190µH
BES M30ME1-GNX15B-S04G-EEX	15V	50mA	120mW	230nF	210µH
BES Q40KFU-GNX20B-S92G-EEX	15V	50mA	120mW	250nF	450µH
BES Q40KFU-GNX35F-S92G-EEX	15V	50mA	120mW	220nF	710µH

Equipment Ratings:

I. Intrinsically Safe (Div. 1) Version

Intrinsically Safe, with entity parameters, for use in Class I, II & III, Division 1, Groups A, B, C, D, E, F & G, T6 Ta = 70°C, in accordance with manufacturer's Control Drawing No. CD1, Hazardous (Classified) indoor (TYPE 4X & IP67) Locations.

II. Intrinsically Safe (Div. 1) Version

Intrinsically Safe, with entity parameters, for use in Class I, II & III, Division 1, Groups A, B, C, D, E, F & G, T6 Ta = 70°C; T5 Ta = 80°C, in accordance with manufacturer's Control Drawing No. CD1, Hazardous (Classified) indoor (IP67) Locations.

FM Approved for:

BALLUFF GmbH
Schurwaldstrasse 9,
Neuhausen 73765
Germany

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

Class 3600	1998
Class 3610	1999
Class 3810	1989
Including Supplement 1	1995
ANSI/NEMA 250	1991
IEC 60529	1989

Original Project ID: 3031148

Approval Granted: *April 9, 2005*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

Robert L. Martell, Jr.

 Robert L. Martell, Jr.
 Assistant Vice President

April 9, 2005

 Date