

FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***Gammapiilot M Type FMG60-SbE1efD1i:***

XP-AIS / I / 1 / ABCD / T\* - 960007128, Entity, Type 4, Type 6, IP65, IP67;

DIP / II, III / 1 / EFG / T\* - 960007128, Type 4, Type 6, IP65, IP67;

I / 1 / AEx d [ia] / IIC / T\* - 960007128, Entity, Type 4, Type 6, IP65, IP67

FISCO/Entity Parameters\*

\*See control drawing specific information.

a = Approval: S

b = Power Supply: 1 or 2

c = Connection: E

d = Communication Output: 1

e = Scintillator measuring range: A, B, C, D, G, H, J, K, L, M, N, P, Q, R, S, or T

f = Housing operation: 1, 2, 3, or 4

g = Cable Entry Power Supply: D

h = Cable entry communication output: 1

i = Additional options: A or B

***Gammapiilot M Type FMG60-SbD1efD1i:***

XP-AIS / I / 1 / ABCD / T\* - 960007340, Entity, Type 4, Type 6, IP65, IP67;

DIP / II, III / 1 / EFG / T\* - 960007340, Type 4, Type 6, IP65, IP67;

I / 1 / AEx d [ia] / IIC / T\* - 960007340, Entity, Type 4, Type 6, IP65, IP67

FISCO/Entity Parameters\*

\*See control drawing specific information.

a = Approval: S

b = Power Supply: 1 or 2

c = Connection: D

d = Communication Output: 1

e = Scintillator measuring range: A, B, C, D, G, H, J, K, L, M, N, P, Q, R, S, or T

f = Housing operation: 1, 2, 3, or 4

g = Cable Entry Power Supply: D

h = Cable entry communication output: 1

i = Additional options: A or B

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

***GammaPilot M Type FMG60-SbE2efD1i and Type FMG60-SbE3efD1i:***

XP-AIS / I / 1 / ABCD / T\* - 960007338, FISCO/Entity, Type 4, Type 6, IP65, IP67;

DIP / II, III / 1 / EFG / T\* - 960007338, Type 4, Type 6, IP65, IP67;

I / 1 / AEx d [ia] / IIC / T\* - 960007338, FISCO/Entity, Type 4, Type 6, IP65, IP67

FISCO/Entity Parameters\*

\*See control drawing specific information.

a = Approval: S

b = Power Supply: 1 or 2

c = Connection: E

d = Communication Output: 2 or 3

e = Scintillator measuring range: A, B, C, D, G, H, J, K, L, M, N, P, Q, R, S, or T

f = Housing operation: 1, 2, 3, or 4

g = Cable Entry Power Supply: D

h = Cable entry communication output: 1

i = Additional options: A or B

***GammaPilot M Type FMG60-SbD2efD1i and Type FMG60-SbD3efD1i:***

XP-AIS / I / 1 / ABCD / T\* --960007339, Entity, Type 4, Type 6, IP65, IP67;

DIP / II, III / 1 / EFG / T\* --960007339, Type 4, Type 6, IP65, IP67;

I / 1 / AEx d [ia] / IIC / T\* --960007339, Entity, Type 4, Type 6, IP65, IP67

FISCO/Entity Parameters\*

\*See control drawing specific information.

a = Approval: S

b = Power Supply: 1 or 2

c = Connection: D

d = Communication Output: 2 or 3

e = Scintillator measuring range: A, B, C, D, G, H, J, K, L, M, N, P, Q, R, S, or T

f = Housing operation: 1, 2, 3, or 4

g = Cable Entry Power Supply: D

h = Cable entry communication output: 1

i = Additional options: A or B

**Equipment Ratings:**

Class I, Zone 1, AEx d [ia] IIC. Explosionproof with Intrinsically Safe connections to Class I, Division 1, Group A, B, C and D; Dust-Ignitionproof for use in Class II, III, Division 1, Group E, F and G indoor/outdoor hazardous (classified) locations, utilizing Type 4, Type 6, IP65, and IP67 enclosure. The examination was based on the installation of the apparatus being installed in accordance with control drawings 960007128, 960007340, 960007338, and 960007339. See control drawing for product's Temperature Class.

**FM Approved for:**

Endress & Hauser GmbH + Co. KG  
Hauptstrasse 1  
D-79689 Maulburg, Germany

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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 3615    | 2006 |
| Class 3810    | 2005 |
| NEMA 250      | 1991 |
| IEC60529      | 1999 |
| ISA-S12.22.01 | 2002 |
| ISA-S12.00.01 | 2002 |
| Class 3616    | 2011 |

Original Project ID: 3022785

Approval Granted: June 6, 2005

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date                    | Report Number | Date |
|---------------|-------------------------|---------------|------|
| 051010        | November 3, 2005        |               |      |
| 3024457       | December 14, 2005       |               |      |
| 3036346       | September 11, 2009      |               |      |
| 130805        | <i>January 20, 2014</i> |               |      |

FM Approvals LLC

  
\_\_\_\_\_  
J.E. Marquedant  
Group Manager, Electrical

*20 January 2014*  
\_\_\_\_\_  
Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

FM Approvals HLC  
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