



FM Approvals  
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Member of the FM Global Group

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***RN 6001 AMabcdefgh. Level Limit Switch.***

Type 4X, IP66

a = Process temperature 1, 2, 3, 4 or 5.

b = Process over pressure 1, 2 or 3.

c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.

d = Process connection A, B, C, D, E, F, Q, G, P, H, I, K, L, M, S, T or U.

e = Material process connection 1, 3, 4 or 7.

f = Length of extension K, A, B, C, D, E or Z.

g = Material of extension 3 or 7.

h = Measuring vane A, R, B, C, D, E, F, G, I, K, S, M, P or Y.

***RN 6002 BMabcdeZfg-Lh. Level Limit Switch.***

Type 4X, IP66

a = Process temperature 1, 2, 3, 4 or 5.

b = Process over pressure 1, 2 or 3.

c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.

d = Process connection A, B, F, Q, P, H, I, K, L, M, S, T or U.

e = Material process connection 1, 3, 4 or 7.

f = Material of extension 1, 3 or 7.

g = Measuring vane A, B, C, D, E, F, G, I, K, S, M or Y.

h = Length in mm.

***RN 6002 aMbcdefZgh-Li. Level Limit Switch.***

Type 4X, IP66

a = Type C or H.

b = Process temperature 1, 2, 3, 4 or 5.

c = Process over pressure 1, 2 or 3.

d = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.

e = Process connection A, B, F, Q, P, H, I, K, L, M, S, T or U.

f = Material process connection 1, 3, 4 or 7.

g = Material of extension 3 or 7.

h = Measuring vane A, B, C, D, E, F, G, I, K, S, M or Y.

i = Length in mm.

**RN 6003 DMabcdefgh. Level Limit Switch.**

Type 4X, IP66.

- a = Process temperature 1, 2, 3 or 4.
- b = Process over pressure 1, 2 or 3.
- c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.
- d = Process connection H, I, L, M or U.
- e = Material process connection 1, 3, 4 or 7.
- f = Length of extension 1, 2, 3, 4, 5 or Z.
- g = Material of extension 1, 3 or 7.
- h = Measuring vane A, B, C, D, E, F, G, I, K, S, M or Y.

**RN 6004 EMabcdefgh. Level Limit Switch.**

Type 4X, IP66

- a = Process temperature 1, 2, 3, 4 or 5.
- b = Process over pressure 1, 2 or 3.
- c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.
- d = Process connection A, B, F, Q, P, H, I, K, L, M, S, T or U.
- e = Material process connection 1, 3, 4 or 7.
- f = Length of extension N, P, Q, R or Z.
- g = Material of extension 1, 3 or 7.
- h = Measuring vane A, B, C, D, E, F, G, I, K, R, S, M or Y.

**RN 6001 AUabcdefgh. Level Limit Switch.**

XP//I/BCD/T5 Ta=40°C; T4 Ta=60°C

I/1/AEx d IIC/T5 Ta=40°C; T4 Ta=60°C

DIP//II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C

Type 4X, IP66.

**RN 6001 ASabcdefgh. Level Limit Switch.**

I/1/AEx de IIC/T5 Ta=40°C; T4 Ta=60°C

DIP//II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C

Type 4X, IP66.

**RN 6001 ANabcdefgh. Level Limit Switch.**

DIP//II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C

Type 4X, IP66.

a = Process temperature 1, 2, or 3.

b = Process over pressure 1, 2 or 3.

c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.

d = Process connection A, B, C, D, E, F, Q, G, P, H, I, K, L, M, S, T or U.

e = Material process connection 1, 3, 4 or 7.

f = Length of extension K, A, B, C, D E or Z.

g = Material of extension 3 or 7.

h = Measuring vane A, R, B, C, D, E, F, G, I, K, S, P or Y.

**RN 6002 BUabcdeZfg-Lh. Level Limit Switch.**

XP//I/BCD/T5 Ta=40°C; T4 Ta=60°C

I/1/AEx d IIC/T5 Ta=40°C; T4 Ta=60°C

DIP//II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C

Type 4X, IP66.

**RN 6002 BSabcdeZfg-Lh. Level Limit Switch.**

I/1/AEx de IIC/T5 Ta=40°C; T4 Ta=60°C

DIP//II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C

Type 4X, IP66.

**RN 6002 BNabcdeZfg-Lh. Level Limit Switch.**

DIP / II,III / 1 / EFG / T5 Ta = 40°C; T4 Ta = 60°C

Type 4X, IP66

a = Process temperature 1, 2, or 3.

b = Process over pressure 1, 2 or 3.  
 c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.  
 d = Process connection A, B, F, Q, P, H, I, K, L, M, S, T or U.  
 e = Material process connection 1, 3, 4 or 7.  
 f = Material of extension 1, 3 or 7.  
 g = Measuring vane A, B, C, D, E, F, G, I, K, S or Y.  
 h = Length in mm.

**RN 6002 aUbcdefZgh-Lhi. Level Limit Switch.**

XP/II/1/BCD/T5 Ta=40°C; T4 Ta=60°C  
 I/1/AEx d IIC/T5 Ta=40°C; T4 Ta=60°C  
 DIP/II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C  
 Type 4X, IP66.

**RN 6002 aSbcdefZgh-Lhi. Level Limit Switch.**

I/1/AEx de IIC/T5 Ta=40°C; T4 Ta=60°C  
 DIP/II,III/1/EFG/T5 Ta=40°C; T4 Ta=60°C  
 Type 4X, IP66.

**RN 6002 aNbcdefZgh-Lhi. Level Limit Switch.**

DIP / II,III / 1 / EFG / T5 Ta = 40°C; T4 Ta = 60°C  
 Type 4X, IP66

a = Type C or H.  
 b = Process temperature 1, 2, or 3.  
 c = Process over pressure 1, 2 or 3.  
 d = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.  
 e = Process connection A, B, F, Q, P, H, I, K, L, M, S, T or U.  
 f = Material process connection 1, 3, 4 or 7.  
 g = Material of extension 3 or 7.  
 h = Measuring vane A, B, C, D, E, F, G, I, K, S or Y.  
 i = Length in mm.

**RN 6003 DUabcdefgh. Level Limit Switch.**

XP/II/1/BCD/T5 Ta=60°C;  
 I/1/AEx d IIC/T5 Ta=60°C;  
 DIP/II,III/1/EFG/T5 Ta=60°C;  
 Type 4X, IP66.

**RN 6003 DSabcdefgh. Level Limit Switch.**

I/1/AEx de IIC/T5 Ta=60°C;  
 DIP/II,III/1/EFG/T5 Ta=60°C;  
 Type 4X, IP66.

**RN 6003 DNabcdefgh. Level Limit Switch.**

DIP/II,III/1/EFG/T5 Ta=60°C;  
 Type 4X, IP66.

a = Process temperature 1, 2, or 3.  
 b = Process over pressure 1, 2 or 3.  
 c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.  
 d = Process connection H, I, L, M or U.  
 e = Material process connection 1, 3, 4 or 7.  
 f = Length of extension 1, 2, 3, 4, 5 or Z.  
 g = Material of extension 1, 3 or 7.  
 h = Measuring vane A, B, C, D, E, F, G, I, K S or Y.

**RN 6004 EUabcdeh. Level Limit Switch.**

XP/II/1/BCD/T5 Ta=60°C;  
I/1/AEx d IIC/T5 Ta=60°C;  
DIP/II,III/1/EFG/T5 Ta=60°C;  
Type 4X, IP66.

**RN 6004 ESabcdeh. Level Limit Switch.**

I/1/AEx de IIC/T5 Ta=60°C;  
DIP/II,III/1/EFG/T5 Ta=60°C;  
Type 4X, IP66.

**RN 6004 ENabcdeh. Level Limit Switch.**

DIP / II,III / 1 / EFG / T5 Ta = 60°C  
Type 4X, IP66

a = Process temperature 1, 2, or 3.

b = Process over pressure 1, 2 or 3.

c = Power supply A, S, B, T, C, U, D, V, E, W, M or Y.

d = Process connection A, B, F, Q, P, H, I, K, L, M, S, T or U.

e = Material process connection 1, 3, 4, or 7

f = Length of extension N, P, Q, R or Z.

g = Material of extension 1, 3 or 7.

h = Measuring vane A, B, C, D, E, F, G, I, K, R, S or Y.

**Equipment Ratings:**

Explosionproof for Class I, Division 1, Groups B, C and D; Class I, Zone 1 AEx d IIC, Class I, Zone 1 AEx de IIC; and Dust-Ignitionproof for Class II/III, Division 1, Groups E, F and G hazardous (classified) locations, indoors and outdoors (NEMA Type 4X, IP66) and for unclassified locations, indoors and outdoors (NEMA Type 4X, IP66)

**FM Approved for:**

UWT GmbH  
Westendstrasse 5  
D-87488 Betzigau  
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 3615	1989
Class 3810	1989
Supplement 1	1995
ANSI/ISA-S12.0.01	2002
ANSI/ISA-S12.22.01	2002
ANSI/ISA-S12.16.01	2002
ANSI/NEMA 250	1991
ANSI/IEC 60529	2004

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Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
060908	September 27, 2006		
091021	January 11, 2010		
100128	February 10, 2010		
101109	December 10, 2010		

FM Approvals LLC

  
 J. E. Marquedant  
 Group Manager, Electrical

10 December 2010  
 Date