



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:

VN 6020 Aabcd31e, VN 5020 Aabcd31e. Level Limit Switch.

Type 4X, IP66.

- a = Certification M or 1.
- b = Temperature extended shaft 1 or 2.
- c = Electronic module E, L, D, K or M(not for model 5020).
- d = Process connection A, B, P, L, M, S, T or U.
- e = Material of process connection/extension L 1 or 2.

VN 6030 Babcd3Ze, VN 5030 Babcd3Ze. Level Limit Switch.

Type 4X, IP66.

- a = Certification M or 1.
- b = Temperature extended shaft 1 or 2.
- c = Electronic module E, L, D, K or M (not for model 5030).
- d = Process connection A, B, P, L, M, S, T or U.
- e = Material of process connection/extension L 1 or 2.

VN 6040 Ca1bc3de, VN 5040 Ca1bc3de. Level Limit Switch.

Type 4X, IP66.

- a = Certification M or 1.
- b = Electronic module E, L, D, K, M (not for model 5040).
- c = Process connection A, B, P, L, M, S, T or U.
- d = Length of extension L or M.
- e = Material of process connection/extension L 1 or 2.

VN 6050 Da1bc3Zd, VN 5050 Da1bc3Zd. Level Limit Switch.

Type 4X, IP66.

- a = Certification M or 1.
- b = Electronic module E, L, D, K, M (not for model 5050).
- c = Process connection A, B, P, L, M, S, T or U.
- d = Material of process connection/extension L 1 or 2.

To verify the availability of the Approved product, please refer to www.approvalguide.com.

VN 6020 Aa1bc31d, VN 5020 Aa1bc31d. Level Limit Switch

XP /I/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

VN 6020 Aa2bc31d, VN 5020 Aa2bc31d. Level Limit Switch

XP-IS/I/1/BCD/T5 Ta=60°C

I/1/AEx d[ja] IIC/ T5 Ta=60°C

DIP/II,III/1/EFG/ T5 Ta=60°C

Type 4X, IP66

a = Certification I or U.

b = Electronic module E, L, D, K or M (not for model 5020).

c = Process connection A, B, P, L, M, S, T or U.

d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6020 Aa1bc31d, VN 5020 Aa1bc31d. Level Limit Switch

I/1/AEx de IIC/ T5 Ta=60°C

DIP/II,III/1/EFG/ T5 Ta=60°C

Type 4X, IP66

VN 6020 Aa2bc31d, VN 5020 Aa2bc31d. Level Limit Switch

I/1/AEx de[ja] IIC/ T5 Ta=60°C

DIP/II,III/1/EFG/ T5 Ta=60°C

Type 4X, IP66

a = Certification H or S.

b = Electronic module E, L, D, K or M (not for model 5020).

c = Process connection A, B, P, L, M, S, T or U.

d = Material of process connection/extension L 1 or 2.

VN 6020 AabMc31d. Level Limit Switch.

IS/I,II,III /1/ABCDEFGF /T6Ta=60°C

I/0/AEx ia IIC/ T6 Ta=60°C;

Type 4X, IP66.

a = Certification G or P.

b = Temperature extended shaft 1 or 2.

c = Process connection A, B, P, L, M, S, T or U.

d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6020 Aabcd31e, VN 5020 Aabcd31e. Level Limit Switch.

DIP/II,III/1/EFG/ T5 Ta=60°C;

Type 4X, IP66.

a = Certification F or N.

b = Temperature extended shaft 1 or 2.

c = Electronic module E, L, D, K or M (not for model 5020).

To verify the availability of the Approved product, please refer to www.approvalguide.com.

d = Process connection A, B, P, L, M, S, T or U.
e = Material of process connection/extension L 1 or 2.

VN 6030 Babcd3Ze, VN 5030 Babcd3Ze. Level Limit Switch.

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

a = Certification I or U.
b = Temperature extended shaft 1 or 2.
c = Electronic module E, L, D, K or M(not for model 5030).
d = Process connection A, B, P, L, M, S, T or U.
e = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6030 Babc3Ze, VN 5030 Babcd3Ze. Level Limit Switch.

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

a = Certification H or S.
b = Temperature extended shaft 1 or 2.
c = Electronic module E, L, D, K or M(not for model 5030).
d = Process connection A, B, P, L, M, S, T or U.
e = Material of process connection/extension L 1 or 2.

VN 6030 BabMc3Zd. Level Limit Switch.

IS/I,II,III /1/ABCDEFGF /T6 Ta=60°C
I/0/AEx ia IIC/ T6 Ta=60°C;
Type 4X, IP66.

a = Certification H or S.
b = Temperature extended shaft 1 or 2.
c = Process connection A, B, P, L, M, S, T or U.
d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6030 Babcd3Ze, VN 5030 Babcd3Ze. Level Limit Switch.

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

a = Certification F or N.
b = Temperature extended shaft 1 or 2.
c = Electronic module E, L, D, K or M(not for model 5030).
d = Process connection A, B, P, L, M, S, T or U.
e = Material of process connection/extension L 1 or 2.

VN 6040 Ca1bc3de, VN 5040 Ca1bc3de. Level Limit Switch.

XP-IS/I/1/BCD/T5 Ta=60°C;
I/1/AEx d[ia] IIC/ T5 Ta=60°C;
DIP /II,III/1/EFG/ T5 Ta=60°C;

To verify the availability of the Approved product, please refer to www.approvalguide.com.

Type 4X, IP66.

a = Certification I or U.

b = Electronic module E, L, D, K or M(not for model 5040).

c = Process connection A, B, P, L, M, S, T or U.

d = Length of extension L or M.

e = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6040 Ca1bc3de, VN 5040 Ca1bc3de. Level Limit Switch.

I/1/AEx de[ia] IIC/ T5 Ta=60°C;

DIP/II,III/1/EFG/ T5 Ta=60°C;

Type 4X, IP66.

a = Certification H or S.

b = Electronic module E, L, D, K or M(not for model 5040).

c = Process connection A, B, P, L, M, S, T or U.

d = Length of extension L or M.

e = Material of process connection/extension L 1 or 2.

VN 6040 Ca1Mb3cd. Level Limit Switch.

IS/I,II,III /1/ABCDEFG /T6 Ta=60°C

I/0/AEx ia IIC/ T6 Ta=60°C;

Type 4X, IP66.

a = Certification G or P.

b = Process connection A, B, P, L, M, S, T or U.

c = Length of extension L or M.

d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6040 Ca1bc3de, VN 5040 Ca1bc3de. Level Limit Switch.

DIP/II,III/1/EFG/ T5 Ta=60°C;

Type 4X, IP66.

a = Certification F or N.

b = Electronic module E, L, D, K or M(not for model 5040).

c = Process connection A, B, P, L, M, S, T or U.

d = Length of extension L or M.

e = Material of process connection/extension L 1 or 2.

VN 6050 Da1bc3Zd, VN 5050 Da1bc3Zd. Level Limit Switch.

XP-IS/I/1/BCD/T5 Ta=60°C;

I/1/AEx d[ia] IIC/ T5 Ta=60°C;

DIP-IS/II,III/1/EFG/ T5 Ta=60°C;

Type 4X, IP66.

a = Certification I or U.

b = Electronic module E, L, D, K or M (not for model 5050).

c = Process connection A, B, P, L, M, S, T or U.

d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

To verify the availability of the Approved product, please refer to www.approvalguide.com.

VN 6050 Da1bc3Zd, VN 5050 Da1bc3Zd. Level Limit Switch.

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

a = Certification H or S.

b = Electronic module E, L, D, K or M (not for model 5050).

c = Process connection A, B, P, L, M, S, T or U.

d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6050 Da1Mb3Zc. Level Limit Switch.

IS/I,II,III /1/ABCDEFG /T6 Ta=60°C
I/0/AEx ia IIC/ T6 Ta=60°C;
Type 4X, IP66.

a = Certification G or P.

b = Process connection A, B, P, L, M, S, T or U.

c = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

VN 6050 Da1bc3Zd, VN 5050 Da1bc3Zd. Level Limit Switch.

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

a = Certification F or N.

b = Electronic module E, L, D, K or M (not for model 5050).

c = Process connection A, B, P, L, M, S, T or U.

d = Material of process connection/extension L 1 or 2.

Special Condition of Use:

The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

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; AEx d[ia] IIC; AEx de[ia] IIC; intrinsically safe for AEx ia 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

To verify the availability of the Approved product, please refer to www.approvalguide.com.



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

Class 3600	2011
Class 3610	2010
Class 3615	1989
Class 3810	1989
Supplement No. 1	1995
ANSI/ISA-S12.0.01	2002
ANSI/ISA-S12.22.01	2002
ANSI/NEMA 250	1991
ANSI/IEC 60529	2004
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2009

Original Project ID: 3022731

Approval Granted: July 11, 2005

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
060925	November 30, 2006		
101109	December 17, 2010		
3042591	June 6, 2011		
130718	November 22, 2013		

FM Approvals LLC



J. E. Marquedant
Group Manager, Electrical

22 November 2013
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com.