

Product Certifications

REFERENCE MATERIAL

Regional Electrical Codes		National Electrical Code (NEC)			Canadian Standards Assoc. (CSA)			Int'l Electrotechnical Commission (IEC)			EMC	Gosstandart
Typical Regions Used		USA, Central & South America			Canada			Europe and Outside Americas ATEX				Russia
Basic Model	Page	Mark	Rating	Agency Files	Mark	Rating	Agency Files	Mark	Rating	Agency Files	CE Mark	Russian Gosstandart
162VTS	2.16		Explosion-proof for: Class I, (B,C,D), Div. I & Class II, (E,F & G), Div. I	CSA/ 49334		Explosion-proof for: Class I, (B,C,D), Div. 1 & Class II, (E,F & G), Div. 1	CSA/ 49334					
440	4.02					Explosion-proof for: Class I, Div. 2 (B,C,D)						
TXR	1.20		Intrinsically-Safe for: Class I, (A, B, C & D), Div. I Non-incendive for: Class I, (A, B, C & D), Div. II						Intrinsically Safe for: EEx ia IIC T4 Non-incendive for: EEx ia IIC T4	BASEEFA		
TXA	1.20		Intrinsically-Safe for: Class I, (A, B, C & D), Div. I Non-incendive for: Class I, (A, B, C & D), Div. II						Intrinsically Safe for: EEx ia IIC T4 Non-incendive for: EEx ia IIC T4	BASEEFA		
5477B (housing)	4.09					Explosion-proof for: Class I, (C,D), Div. I, Class II, (E,F & G), Div. I	CSA/ 49334					Approved
ST5484E	2.14		Explosion-proof for: Class I, (B,C,D), Div. I & Class II, (E,F & G), Div. I	CSA/ 49334		Explosion-proof for: Class I, (B,C,D), Div. I & Class II, (E,F & G), Div. I	CSA/ 49334		Intrinsically Safe for: EEx ia IIC T4 Tamb: -40°C to 100°C	LCIE 02 ATEX 6244X		Approved
ST5491E	2.18		Explosion-proof for: Class I, (C & D), Div. I & II; Class II, (E,F & G), Div. I & II	CSA/ 49334		Explosion-proof for: Class I, (C & D), Div. I & II; Class II, (E,F & G), Div. I & II	CSA/ 49334					Approved
5485C	2.10		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I Non-incendive for: Class I, Grps. (A-D)	UL/ E 123842		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/ 49334		Intrinsically Safe for: EEx ia IIC T6 Tamb: -54°C to 375°C	LCIE/ 02 ATEX 6192		Approved
5500	5.04								Intrinsically Safe for: EEx ia IIC T3 Tamb: -10°C to 70°C	BASEEFA/ 03 ATEX 0556		Approved
5510	1.26											Approved
5516	1.26											Approved
PT5521	1.24											
5533	1.18		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/ 49334		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/ 49334		Intrinsically Safe for: EEx ia IIC T3 Tamb: -51°C to +100°C	BASEEFA/ 03 ATEX 0205X		Approved
5534	2.12		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334					Approved
5535	2.06		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334					Approved
5544	2.12		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334					Approved
5545	2.06		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334		Non-incendive for: Class I, Grps. (A,B,C & D), Div. II	CSA/ 49334					Approved
5550	4.11		Explosion-proof for: Class I, (B,C & D), Div. I & Class II, (E,F & G), Div. I	UL/ E53349		Explosion-proof for: Class I, (B,C & D), Div. I & Class II, (E,F & G), Div. I	UL/ E53349 CSA/ 49334		Flameproof for: Zone 1, EEx d IIB + H2 T6 Tamb: -40°C to 70°C	DEMKO 02 ATEX 0212409		Approved

PRODUCT MARKING LEGEND

NOTE:

Not all product variations may be certified. See individual product pages or consult factory for details.

- = Certified to both USA (NEC) code standards (ratings) by Underwriter's Laboratories
- = Certified to Canadian (CSA) code standards (ratings) by Underwriter's Laboratories
- = Product is Electromagnetic Compatibility Tested

- = Certified to Canadian (CSA) code standards (ratings) by Canadian Standards Ass'n.
- = Certified to both USA (NEC) and CSA standards (ratings) by Canadian Standards Association
- = Certified to both USA (NEC) and CSA standards (ratings) by Canadian Standards Association

- = Certified to ATEX standards (ratings) by an approved test lab:

Examples:

BASEEFA = British Approval Service for Electrical Equipment in Flammable Atmospheres

LCIE = Laboratoire Central des Industries Electriques

DEMKO = Denmarks Elektriske Materielkontrol



Vibration - Condition Monitoring and Protection

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Regional Electrical Codes		National Electrical Code (NEC)			Canadian Standards Assoc. (CSA)			Int'l Electrotechnical Commission (IEC)			EMC	Gosstandart
Typical Regions Used		USA, Central & South America			Canada			Europe and Outside Americas ATEX				Russia
Basic Model	Page	Mark	Rating	Agency Files	Mark	Rating	Agency Files	Mark	Rating	Agency Files	CE Mark	Russian Gosstandart
10000 Series *	1.04		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: EEx ia IIC T3 Tamb: -34°C to +177°C	BASEEFA/03 ATEX 0204		Approved
SH2000	5.02											Approved
SW6000	4.07		Explosion-proof for: Class I, (B,C & D), Div. I	CSA/31283		Explosion-proof for: Class I, (B,C & D), Div. I	CSA/31283		Flameproof for: Zone 1, EEx d IIB + H2 T4 Tamb: -40°C to 85°C	LCIE/02 ATEX 6157X		Approved
SM6100	3.02		Explosion-proof for: Class I, (B,C & D), Div. I	CSA/31283		Explosion-proof for: Class I, (B,C & D), Div. I	CSA/31283		Flameproof for: Zone 1, EEx d IIB + H2 T4 Tamb: -40°C to 85°C	LCIE/02 ATEX 6157X		Approved
SA6200A	2.02					Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: EEx ia IIC T4 Tamb: -54°C to 121°C	LCIE/02 ATEX 6176X		Approved
SV6300A	2.08											Approved
SA6350	2.04		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: EEx ia IIC T6 Tamb: -40°C to 325°C	BASEEFA/03 ATEX 0259		Approved
IT6810	2.22		Explosion-proof for: Class I, (A,B,C & D), Div. II	UL/E197870		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: EEx ia IIC T4 Tamb: -40°C to 100°C	LCIE/02 ATEX 6218X		Approved
IT6811	2.22		Explosion-proof for: Class I, (A,B,C & D), Div. II	UL/E197870		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: EEx ia IIC T4 Tamb: -40°C to 100°C	LCIE/02 ATEX 6218X		Approved
IT6812 (Housing)	2.23											
ST6917	2.20											
DATAWATCH V & VI	3.05			Pending			Pending					
7402	1.16		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: Class I, Grps. (A,B,C & D), Div. I	CSA/49334		Intrinsically Safe for: EEx ia IIC T3 Tamb: -34°C to +177°C	BASEEFA/03 ATEX 0204		Approved

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***NOTE:** For easy cross reference, all Metrix 10000 Series proximity probes that are interchangeable with GE/Bently Nevada probes also have the Bently model number with the prefix MX. These probes have both model number on their labels for easy identification and reference to hazardous area certifications, and are certified to both CSA and ATEX standards as stated above. Probes with 11mm tips have their CSA certification pending.

Please contact factory for all other product certifications.

BASIC APPLICATION NOTES

Hazard area ratings are used in order to prevent potential explosions. Within a single plant, one area may be rated differently from another. In general, each electrically hazardous area is classified by the type of potential combustible such as gases, dusts and fibers. Non-hazardous areas are often referred to as ordinary locations. For hazardous areas, classes are further subdivided into Divisional or Zonal areas if the combustible is present:

1) in normal operation or the space is enclosed (NEC/CSA Div. 1; IEC Zones 0 & 1). 2) only under abnormal conditions such as a leak (NEC/CSA Div. 2; IEC Zone 2). IEC Zone 0 areas require intrinsically safe (I/S) rated and wired instruments. Division 1 and Zone 1 areas allow use of I/S or explosion-proof rated and wired instruments. Division 2 and Zone 2 areas require only certification as non-incendive and wiring with approved methods. A hazard area classification bulletin is available upon request.



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