

Australian/New Zealand Certification Scheme for Explosion Protected Equipment

Certificate of Conformity EX EQUIPMENT

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Certificate No.: AN	ZEx 18.4160	Current Issue: 0	Date of Issue:	27 July 2018
Applicant:	Connection Technolo 7939 Rae Blvd Victor New York 145 United States of Americ	o gy Center 64 ca		
Equipment:	Transducer Sensors AC95X, AC96X, LP85	X, LP86X, LP95X, LP9	6X	
Type of Explosion Protection:	Intrinsic Safety 'i'			
Explosion Protection Marking:	Ex ia IMa (Ta varies Ex ia IIC T3T4 Ga (with model, refer Equij Ta varies with model, r	oment Description) efer Equipment De) escription)
Standard	This certificate is granted s Is Australia/Standards Nev	ubject to the conditions a v Zealand Miscellaneous	as set out in Publication MP87.1	
	lf of includes how he	for		
Signed for and on benai	Name & Position	David Price - Certifica	tion Authority	
		Ex Testing & Certificat	tion	
This certificate is not transferabl The status of this certificate can	le and remains the property of the be confirmed through the databa	e issuing body. se located at <u>www.anzex.com.au</u>	<u>1</u>	
Certificate iss	sued by:			
	Ex Testing 1/30 Kennington Driv	& Certification Pty Ltd e, Tomago NSW 2322	Australia	
JAS-ANZ				
U,	Pa This certificate and schedule u	nge 1 of 6	EX	LESTING & CERTIFICATION



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Manufacturer :	Connection Technolog 7939 Rae Blvd Victor New York 1456 United States of America	gy Center 4			
Additional Manufacturing Location(s):	None				
STANDARDS:					
The equipment and an documents, was found	y acceptable variations to it specifi I to comply with the following stand	ed in the schedule of ards:	this ce	ertificate and the identifie	ed
IEC 60079-0:2017 Ed	7 Explosive atmospheres - Part	t 0: Equipment—Genera	al requir	rements	
IEC 60079-11:2011 E	d 6 Explosive atmospheres - Part	t 11: Equipment protect	ion by ir	ntrinsic safety "i"	
This Certificate does n included in the Standa TEST & ASSESSME The equipment listed h Test Report No. 8	ot indicate compliance with safety a rds listed above. ENT REPORTS: has successfully met the examination & Issuing Body: AU/EXTC/E	and performance req on and test requireme xTR18.0021/00	uireme ents as	nts other than those exp recorded in:	oressly
Quality Assessme & Issuing Body:	ent Report No. CA/CSA/QA	R08.0011/05			
File Reference:	Job No 1808	1			
(Certificate format based on temp	late QMA-HAE-08-720 dated 2017-11-13)				
JAS-ANZ					





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Schedule

Equipment Description:

This certificate covers a variety of vibration sensors.

There are two basic shapes for the sensors, referred to as "Top Exit Cable" which has a cylindrical enclosure, or a "Side Exit Cable" which has a rectangular enclosure. The 'Top Exit' shape uses a threaded hole to provide the means for attaching the sensor to the object being monitored. The 'Side Exit' model has a through hole in its body to accommodate a fastener that attaches the sensor to the object being monitored. The outer casing is made of stainless steel and provides hermetic sealing to the internal circuits. Epoxy encapsulant is used for the assembly and also on all circuit boards directly.

External connections are provided either by using a socket or integral cable.

Models AC95x: These provide 100, 50, or 10mV/g acceleration signals as a voltage output.

Models AC96x: These are a low capacitance version of the AC95X and also provide a 100, 50, or 10mV/g acceleration signals as a voltage output,

Models LP85x, LP86x: These are identical, and provide a velocity signal as a 4-20mA output.

Models LP95x, LP96x: These are identical, and provide an acceleration signal as a 4-20mA output.

Electrical Ratings/Parameters

The parameters that shall be taken into account are:

For AC95x:

Ex ia IIC T3 Ga for Ta -54 °C to +125 °C Ex ia IIC T4 Ga for Ta -54 °C to +80 °C Ex ia I Ma for Ta -54 °C to +80 °C Ui 28V; Ii 100mA, Pi 1W, Ci 70nF, Li 0 uH Cable provides an additional 80.4nF and 312uH for 500m length of cable. This is limited to 60m length for Group IIC, adding 9.7nF and 37.44uH.

For AC96x:

Ex ia IIC T3 Ga for Ta -40 °C to +125 °C Ex ia IIC T4 Ga for Ta -40 °C to +80 °C Ex ia I Ma for Ta -40 °C to +80 °C Ui 28V; Ii 100mA, Pi 1W, Ci 0nF, Li 0uH

Cable provides an additional 80.4nF and 312uH for 500m length of cable.









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For LP85x, I	LP95x:			
Ex ia IIC T4	Ga for Ta -40℃ to +80℃			
Ex ia I Ma fo	r Ta -40℃ to +80℃			
Ui 28V; li 100	0mA, Pi 1W, Ci 0nF, Li 0uH			
Cable provid	es an additional 80.4nF and 312	2uH for 500m length of ca	able.	
For LP86x, I	LP96x:			
Ex ia IIC T4	Ga for Ta -40℃ to +80℃			
Ex ia I Ma fo	r Ta -40℃ to +80℃			
Ui 28V; li 100	0mA, Pi 1W, Ci 0nF, Li 0uH			
Cable provid	es an additional 80.4nF and 312	2uH for 500m length of ca	able.	

The ambient temperatures shall not be exceeded by the temperature of the machine to which this equipment is bolted.

Condition of Manufacture:

For models with integral cable, the cable shall be appropriately rated for the ambient temperature range of the vibration sensor.

Specific Conditions of Use:

None







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History of Issues and Variations

Issue 0 dated 27 July 2018

Manufacturer's Documents associated with Issue 0:

Document Number	Pages / Sheets	Document Title		Date
INS10013	1 & 2 of 3	Sensors, Pin Connector, Hazardous Area	E	2018-04-25
INS10014	1 to 4 of 6	Sensors, Accelerometers, With Integral Cable, Hazardous Area	С	2017-05-10
INS10015	1	Labelling, Hazardous Locations	А	2007-05-09
INS10019	1	Control Drawing, Traces, AC Series - Trace	0	2003-07-17
INS10020	1	Control Drawing, Component Layout, AC Series	0	2003-07-17
INS10021	1	Trace Locations, LP Series, Side 1 & Side 2	А	2003-09-23
INS10022	1	Parts Locations, LP Series, Side 1 & Side 2	А	2003-09-23
INS10025	9 of 9	Marking/Labelling, Hazardous Locations Sensor	J	2018-07-25
INS10026	2	LP 4-20mA Schematic (and BOM)	D	2017-06-06
INS10027	2	IS 100mV/g Schematic (and BOM)	В	2017-06-06
INS10028	2	IS 50mV/g Schematic (and BOM)	В	2017-06-06
INS10029	2	IS 10mV/g Schematic (and BOM)	В	2017-06-06
INS10030	1	Ceramic, Piezoelectric, Schedule Drawing	А	2015-03-16
INS10031	1	Sensing Element, Hazardous Area Models	В	2015-03-16
INS10053	2	New Low Cap IS Sensor Board (Schematic and BOM)	D	2017-05-11
MNX10022	6	Product Manual Models AC95X, AC96X, LP85X, LP86X, LP95X, LP96X	С	2010-01-11
ACP42110	1	Artwork for low capacitance AC96X (Top Overlay)	G	-







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Document Number	Pages / Sheets	Document Title		Revision	Date	
ACP42110	1	Artwork for low ca (Top Tracks)	pacitance AC96X		Н	-
CBP10033	1	Cable, Black, Polyurethane, Jacketed, Twisted, Shielded Pair		К	2015-03-19	
CBP10039	1	Cable, Red, Teflon Jacketed, Twisted, Shielded Pair		С	2016-09-21	
CBP10099	1	Cable, Yellow Jac	keted, 0.190 Diameter		G	2016-09-23
CBP10202	1	Cable, Blue RAL studies twisted, shielded	5015, Polyurethane Jack pair, matte finish	eted,	D	2016-09-21
CBP10283	1	Blue Thermoplast Division 2)	ic Cable, 2 Conductor (C	lass I,	F	2013-10-21



