



SENSORS APPROVED FOR USE IN EXPLOSIVE ENVIRONMENTS

- European Union's ATEX Directive 2014/34/EU (formerly 94/9/EC) Equipment for Potentially Explosive Atmospheres
- International Electrotechnical Commission's IEC Ex Rules 01-05 (IECEx)
- US National Fire Protection Association NFPA 70: National Electric Code® (CSA AEx)
- Canadian Standards Association CSA C22.1: Canadian Electrical Code (CSA Ex)



ENSURE PROPER SELECTION OF MONITORING EQUIPMENT FOR HAZARDOUS APPLICATIONS

Industrial explosions can cause catastrophic damages and worker injury and/or death. To prevent such disasters, regulations are in place that govern what types of equipment can be installed in potentially explosive environments. IMI Sensors has products approved to several different regulations.

TYPICAL APPLICATIONS

- Manufacturing processes creating or using explosive gases, liquids, vapors and/or dust
- Power generation facilities
- Oil and gas wells and pipelines

	OUTPUT SIGNAL	MAX TEMPERATURE (°F / °C)	CONNECTOR POSITION	ATEX				IECEx			CSA Ex			CSA AEx		
				d	ia	nL/ic ¹	nA	d	ia	nA	ia	nL/ic ¹	nA	ia	nL/ic ¹	nA
Accelerometers																
CS604BX1	ICP [®]	250/121	Side								X	X		X	X	
CS622AX1	ICP [®]	250/121	Top								X	X		X	X	
CS623CX0	ICP [®]	250/121	Top								X	X		X	X	
CS625BX1	ICP [®]	250/121	Side								X	X		X	X	
CS628F11	ICP [®]	250/121	Top								X	X		X	X	
CSM623C01	ICP [®]	250/121	Top								X	X		X	X	
CSVQ(M)622A01	ICP [®]	250/121	Top								X	X		X	X	
EX357C7X	Charge	900/482	Side		X	X										
EX600B1X	Charge with Amplifier	900/482	Integral Cable		X		X				X	X		X	X	
EX602D0X	ICP [®]	250/121	Side		X	X	X		X		X	X		X	X	
EX602D1X	ICP [®]	250/121	Side		X	X	X		X		X	X		X	X	
EX602D6X	ICP [®]	250/121	Side		X	X	X		X		X	X		X	X	
EX603C0X	ICP [®]	250/121	Top		X	X	X		X		X	X		X	X	
EX603C1X	ICP [®]	250/121	Top		X	X	X		X		X	X		X	X	
EX603C6X	ICP [®]	250/121	Top		X	X	X		X		X	X		X	X	
EX606BXX	ICP [®]	250/121	Side		X	X	X		X		X	X		X	X	
EX607AXX	ICP [®]	250/121	Side		X	X	X		X		X	X		X	X	
EX608AXX	ICP [®]	250/121	Top		X	X	X		X		X	X		X	X	
EX611AX0	Charge	1200/650	Integral Cable		X				X							
EX615A42	Charge	900/482	Integral Cable		X		X		X	X	X		X	X	X	
EX619A11	Charge	900/482	Integral Cable		X		X		X	X	X	X		X	X	
EX622AX1	ICP [®]	250/121	Top		X		X									
EX623C0X	ICP [®]	250/121	Top		X		X									
EX628FX1	ICP [®]	250/121	Top		X		X									
EX629A11A	ICP [®]	250/121	Integral Cable			X	X				X		X	X	X	
Differential Charge Amplifiers																
EX682A40	N/A	176/80	N/A		X		X				X	X		X	X	
Pressure Sensors																
102A4X	ICP [®]	275/135	Top		X	X	X				X	X		X	X	
121A4X	ICP [®]	250/121	Top		X	X	X				X	X		X	X	
176A02	Charge	1200/650	Integral Cable		X		X		X	X	X	X		X	X	
176A03	Charge	1200/650	Integral Cable		X		X		X	X	X	X		X	X	
176A05	Charge	968/520	Integral Cable		X		X		X	X	X	X		X	X	
176MXX	Charge	986/530	Integral Cable		X		X		X	X	X	X		X	X	
Vibration Switches																
685BXXXC1X	N/A	158/70	N/A	X							X	X		X	X	
EX686B0X	N/A	185/85	Top								X	X		X	X	
EX686B7X	N/A	185/85	Top								X	X		X	X	
EX686B7XD	N/A	185/85	Top	X				X								
Vibration Transmitters																
CS640A0X	4-20 mA	176/80	Top								X	X		X	X	
CS641A00	4-20 mA	176/80	Top								X	X		X	X	
CS645M02	4-20 mA	185/85	Top								X	X		X	X	
CS646A01	4-20 mA	185/85	Top								X	X		X	X	
CS649A93	4-20 mA	212/100	Top								X	X		X	X	
CSEP640A01	4-20 mA	176/80	Top								X	X		X	X	
CSEP641A01	4-20 mA	176/80	Top								X	X		X	X	
EX640B0X/1X/6X	4-20 mA	176/80	Top		X	X					X	X		X	X	
EX640B7XD	4-20 mA	176/80	Top	X				X								
EX640B7X	4-20 mA	176/80	Top		X		X				X	X		X	X	
EX641B0X/1X/6X	4-20 mA	176/80	Top		X	X					X	X		X	X	
EX641B7X	4-20 mA	176/80	Top		X		X				X	X		X	X	
EX641B7XD	4-20 mA	176/80	Top	X				X								
EX642AX1	4-20 mA	185/85	Side		X	X					X	X		X	X	
EX645BX0	4-20 mA	185/85	Top		X	X					X	X		X	X	
EX646B00	4-20 mA	185/85	Top		X	X					X	X		X	X	
EX646BX2	4-20 mA	185/85	Top		X	X					X	X		X	X	
EX646B71	4-20 mA	185/85	Top		X		X				X	X		X	X	
EX648A11	4-20 mA	185/85	Top		X	X					X	X		X	X	
EX649A01	4-20 mA	212/100	Top		X	X					X	X		X	X	
EX649A71	4-20 mA	212/100	Top		X		X				X	X		X	X	

Note 1: ic certification is replacing nL certification as certificates are renewed.



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IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at www.pcb.com. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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