



## **STATEMENT REGARDING RoHS, WEEE and REACH**

BEI Sensors is committed to the environment and to compliance with all applicable local, state, federal, and international laws which help to ensure a clean and healthy environment. As part of our efforts, we have established and maintain an ISO 14001 Certified Environmental Management System. We are aware of the European Union (EU) directives for Reduction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE). Both of these initiatives have, as their objective, the elimination and/or reduction of hazardous materials in the waste stream. We support these objectives as well as the REACH initiatives as outlined below:

### RoHS2

Reduction of Hazardous Substances (RoHS) is a European directive which requires the reduction of six hazardous substances from select electronic products sold into the European Union. (Lead, Cadmium, Hexavalent Chromium, Mercury, PBB, and PBDE). It was originally put into place with a compliance deadline of July, 2006.

The RoHS directive as originally written applied to several broad categories of products: large household appliances, small household appliances, IT and Telecommunications Equipment, Consumer Equipment, Lighting Equipment, Electrical and Electronic Tools (except large-scale stationary industrial tools), toys (includes leisure and sports equipment) and automatic dispensers. Two categories of products in the original RoHS directive were considered to be "out of scope" and were specifically excluded from RoHS requirements: Medical devices (excepting implanted and infected products) and Monitoring and Control instruments.

All electronic products manufactured and sold by BEI Sensors are considered "Monitoring and Control Instruments" and were therefore exempt from the July 2006 compliance deadline. However with the introduction of RoHS2, effective January 2, 2013 these categories of products will now be considered to be "within the scope" of RoHS2 and will have a transition period within which these products will need to comply.

Summary for BEI Sensors products:

They are now "within the scope" of the RoHS2 requirements. BEI's products fall within the description of "industrial monitoring and controlling instruments". The applicable deadline for our products is July 22, 2017.

BEI Sensors does currently use lead solders in our manufacturing processes and will continue to do so during this transition time, but will phase it out as quickly as practical. Hexavalent Chromium is used as a passivating agent for aluminum housings and covers for our encoders and will be phased out in favor of Trivalent Chromium or other similar coating. Cadmium is present in trace amounts in protective finishes on certain connectors. Substitutes are currently available upon request; however we are investigating the most cost and performance effective alternatives. Mercury, PBB & PBDE are not present in our products.

### WEEE

"Waste Electrical and Electronic Equipment" (WEEE) is a directive that parallels the RoHS directive and is aimed at controlling the disposal of electronic equipment sold in the European Union.

This directive was recently updated in July of 2012 as Directive 2012/19/EU and specifies a transition period for compliance from 13 August 2012 through 14 August 2018. We began marking our product with the "wheeled bin" symbol in July 2006 as specified in Annex IX of the latest version.



We intend to comply with the applicable WEEE regulations as established by each member state of the EU however requirements for disposal are not fully defined and have not been established in each of the member states.

Summary for BEI products: We will continue to monitor this situation as the costs and disposal procedures are established. In the meantime we will support the intent of WEEE by shipping product with the wheeled bin symbol to alert users that they will need to follow their member states disposal procedures.

## REACH

The European REACH Regulations, EC 1907/2006 released in December 2006, list various Substances of Very High Concern (SVHC) which are subject to regulation.

Except for Lead (Pb), we believe that all of the listed SVHC materials exist only in trace amounts or are not present in any amount in the finished goods that leave our manufacturing plant. Lead, a component of the tin/lead solder we use for electrical connections, is the only material in our products near the reportable level of 0.1% by weight. The highest concentration by weight, in our H20 product with SM18 connector option, is approximately 0.1% by weight. All other products that BEI manufactures have less than 0.1% by weight of lead. As we transition our products through the RoHS2 requirements, this lead content will go away.

We do use some of the SVHC in the manufacturing processes of our parts, however they are converted and polymerized in the manufacturing process and no longer retain their original chemistry in the finished part. As polymerized compounds they are exempted under paragraph 41 of the REACH.

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