

Environmental declaration Type II

GENERAL PRODUCT INFORMATION

<i>Name of product series</i>	<i>Packaging</i>
PULSER-M	Cardboard

COMPANY INFORMATION

Company, address and telephone

AB REGIN

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Company description

Regin is the collected trademark for products and systems in building automation. The company's knowledge is based on many years of wide experience in control, automation and flow control.

AB Regin has a certified quality assurance system according to ISO 9001.

Ongoing environmental work

Regin designs products on commission from clients as well as for resale. Regin has no production of its own and has thereby no product related consequences for the environment. Regin can control environmental aspects related to product development and when choosing suppliers and components.

AB Regin intend to begin working with environmental certification according to ISO 14 001.

AB Regin intend to gradually start developing MVD Type II (Regin's own environmental declaration) for our products.

PRODUCT INFORMATION

General

The recommended field of application is stated in the technical documentation.

There is an unambiguous and lasting label (manufacturer, product name, serial number etc) on the product.

The labelling is linked to the technical documentation which makes the product clearly identifiable.

Product design

The product consists of an assembled circuit board with a cooling flange mounted in a casing intended for wall mounting. The casing consists of a back piece, knob and a front with limitation rings.

<i>Component modules</i>	Weight grams	Weight %
Assembled circuit board	50	21
Plastic components	104	43
Cooling flange	82	34
Other metal parts (screws, washers etc)	5	2

PRODUCT INFORMATION, RESOURCES AND HAZARDOUS SUBSTANCES

Component modules	Resources (metals, organic, non-organic substances)	Hazardous substances (Kd, Hg, Pb, PCB, PVC, PBB, PBBE etc)
PCB	Epoxi, Cu, Ag; TBBP-A, Si, Fe, Au	TBBP-A
Plastic components	PC/ABS Copolymer	
Cooling flange	Al	
Screws	Fe, Zn, Cu	
Notes, the product's content		

PRODUCTION

Regin has no production of its own and has therefore no product related environmental policy.

The components are mounted manually and are thereafter soldered together with classified soldering. The environmental consequences are negligible, and consist solely of air outlet from soldering

The operation does not require licencing

DISTRIBUTION

Production origin Hultsfred, Sweden

Mode of transportation Lorry, train

Mode of distribution The product is normally distributed via a warehouse/wholesaler.

Wrapping Material Wood, paper, plastic

Packaging material can not be returned.

AB Regin is connected to REPA.

BUILDING PHASE

Documented instructions for mounting and commissioning are included with the product.

The instructions contain recommendations concerning

- Safeguard measurement for handling procedures and mounting.
- Handling of the product at the workplace and during mounting.

USAGE PHASE**Normal operation**

The product requires energy (electricity) during normal operation. Power consumption approx. 20 VA depending on load.

The product does not have any environmental impact on the surrounding environment during normal operation.

Normally, the product does not require any maintenance.

It is possible to estimate the product's life span in advance.

There is no documentation concerning the expected life span when the product is under different conditions.

Documented instructions for appropriate operation and maintenance are supplied with the product.

Emergency

In case of fire the plastic may emit gases harmful to human health. The amounts of these substances are small compared with the size of the product.

Circuit boards may emit toxic flue gases.

DEMOLITION

The product is prepared for environmental-friendly dismantling.

Dismantling of the product:

1. Remove the knob, unscrew the screw holding the limitation rings and remove the rings.
2. Loosen the screw on the lid and remove the lid. Remove the screw
3. Loosen the screw holding the circuit board and remove the board and the appendant cooling flange.
4. Loosen the screw holding the cooling flange (painted red). You might need to use a 5, 5 mm socket wrench to remove the nut.
5. Remove the earth screw and tin-plate.

WASTE MANAGEMENT

The long life span of the product means that the recycling situation may differ from today when the product is recycled.

The product is required, by law, to be handled according to standard waste management procedures. The materials can easily be separated to a high separation degree.

The casing and the sealing consist of PC/ABS and can, theoretically, be recycled. Recovering of energy through combustion is considered the best option in the present situation, since the plastic does not contain any substances dangerous to the environment.

Circuit boards with components are required by law to be dismantled and constituent components to be identified. Swedish companies in electronic recycling separate in three main fractions. Recycling of materials, recovering of energy and dangerous waste.

Identified metallic constituents are returned to metal recycling.

Combustible materials are returned for safe disposal in a licenced incinerator.

Dangerous waste is returned for destruction to a licenced entrepreneur.