

Environmental Declaration Type II

GENERAL PRODUCT INFORMATION

Name of product	Packaging
TG-R5 series: TG-R5/NIx, TG-R5/NTCx, TG-R5/PTx, TG-R530, TG-R540, TG-R550	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 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 Environmental Declaration Type II 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 mounted in a plastic casing intended for wall mounting indoors. The enclosure has two parts and is assembled without screws. A PCB assembly is mounted inside.

Component modules	Weight grams	Weight %
Enclosure	47	75
Electronics	16	25

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 assembly Casing	Epoxy, Cu, Fe, Sn, Zn, PA PC	TBBPA

Notes, the product's content

PRODUCTION

The components are mounted manually and are thereafter soldered 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; Bressanone, Italy; or Shenzhen, China depending on model and as stated on the individual product

Mode of transportation Lorry, train, ship, and/or air freight

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

Wrapping Material Cardboard

Packaging material can not be returned.
AB Regin is connected to FTI.

BUILDING PHASE

Documented instructions for mounting and commissioning are available for 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 no energy (electricity) during normal operation. 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 for 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. Open the product cover according to the supplied instructions.
2. Use a screwdriver or other appropriate tool to pry separate the plastic and electronic parts and recycle at appropriate facility.

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.

Plastic parts 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.