



Environmental Product Declaration

Product	Device type	FDS 221	
	Designation	Alarm sounder	
	Product range	FD 20	
Process control	Siemens Switzerland Ltd Building Technologies Group Fire Safety & Security Products Gubelstrasse 22, CH-6301 Zug		
	Management system certified	since	by
	ISO 14001 (environment)	6.12.2002	Gerling Cert
	ISO 9001 (quality)	6.11.1989	SQS/VdS
Environmentally compatible product design	The device was developed in accordance to the Siemens standard SN36350 'Environmentally compatible products'. This standard describes guidelines for the design of environmentally compatible products, and their integration into the product planning and development process. The purpose is to achieve optimum environmental compatibility of products, taking account of all phases of the product lifecycle.		
Product use	Typical annual energy consumption	appr. 66 Wh	
	Maintenance	none	
	Environmental benefits	see notes on page 2	
Environmental risk (fire)	Fire protection as per		
	Fire load	appr. 4 MJ	
	Parts containing halogens (result in corrosive smoke)	Printed Circuit Board assembled	
Packaging	21-PAP cardboard	folding cardboard box	20 g
	22-PAP Paper	adherence label	1 g
	Notes on disposal	Generic recycling is possible, see material identification	

Materials		total weight of device	107 g
Plastics	ABS white	cover	22.8 g
	ABS black	support assembled piezo support, Acoustic disk	32.1 g
	PC red, white, transparent	sounder cover	32.6 g
	PC transparent	light conductor	<1.0 g
	TPE, Santoprene 80 Shore A	piezo support	<1.0 g
Metals	Cu galvanisch verzinkt (molded in support ABS black)	contact pin	(<1.0 g)
	Steel, zinc coated	PT screw K30x10 (3 pcs.)	1.6 g
Diverses	Brass and piezoceramic	piezo	4.4 g
Circuit boards with components	FR4, containing bromine, solder SnAgCu	Printed Circuit Board assembled	12.6 g

(Parts with weights in brackets are already included in components declared under materials.)

"The total weight of a device may deviate from the total of the weights of all its individual components due to rounding."

Disposal



The device is a waste electronic equipment in terms of the European Directive 2002/96/EC (WEEE) and should not be disposed as part of unsorted municipal waste. The relevant national legal rules are to be paid attention. Use for disposal the systems set up to collect electric waste.

Observe all local and applicable laws.

Notes:

Accessories:

- | | | | |
|------------------------------|--------------------|--------|---------|
| • Installations instruction | paper | 2.0 g | 0.05 MJ |
| • Detector interlock FDBZ293 | steel, stainless | <1.0 g | |
| • hexagon socket screw 1.5 | steel, zinc coated | 1.5 g | |
| • Detector base FDB 221 | ABS white | 18.4 g | 0.70 MJ |
| • Terminal block 6-poles | PA, colored | 7.0 g | 0.01 MJ |

Environmental benefits:

- Serves for the early detection of fires and prevents the discharge of toxic gases.
- Easily removable. Disassembling is possible without any important effects regarding waste disposal.
- Very low energy consumption.

Legal disclaimer: This declaration is for information purposes only

This environmental product declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Switzerland Ltd. therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

If you require further information on environmental aspects and disposal, contact your local Siemens branch office.