



## Environmental Product Declaration

<b>Product</b>	Type of equipment / Product No.	FDT2x, FDO2x, FDOOT2x, FDOOTC241
	Designation	Fire detector
	Product line, product range	Sinteso FD 20

<b>Process control</b>	Siemens Switzerland Ltd	
	Smart Infrastructure, Global Headquarters Building Products	
	Theilerstrasse 1a	
	CH-6300 Zug	
	Management System	since by
	ISO 14001 (Environment)	
	ISO 9001 (Quality)	
	OHSAS 18001 (OH&S)	

<b>Environmentally compatible product design</b>	Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".
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<b>Product use</b>	Typical energy consumption	variant *) see below
	Fire load	4MJ

<b>Packaging</b>	PE-semi plastic bag	Detector packing for 1 detector	3g
	20-PAP corrugated cardboard, paper	Transport packing with adherence label for 20 detector	410g
	Notes on disposal	Generic recycling is possible, see material identification	

<b>Materials</b>	Total weight of device	variant *) see below		
	The total weight of a device may deviate from the total of the weights of all individual components due to rounding.			
	ABS; white; low-halogen	Detector housing	22g	
	ABS; white; low-halogen	Cover	26g	
	ABS; black; low-halogen	Support	variant	
	ABS; black; low-halogen	Labyrinth	variant	
	ABS; black; low-halogen	DT cover plate	variant	
	ABS; white; low-halogen	Screen ring	variant	
	PC; transparent; low-halogen	Light conductor, reception lens	1g	
	PPO; grey; low-halogen	CO gas sensor	variant	
	Metals	Cu; tin plated	Pin	1g
		Cu; tin coated	Metal shield	1g
	PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCB	variant

**\*Variant parts list**

	FDT2x	FDO2x	FDOOT221	FDOOT241-8/-9	FDOOT241-A	FDOOT241-A3	FDOOT241-A4	FDOOT241-A5	FDOOT241-A9	FDOOTC241
Total weight of device [g]	89	105	107	107	107	107	107	107	107	108
Support	24	24	24	24	24	24	24	24	24	24
Labyrinth		19	19	19	19	19	19	19	19	18
DT cover plate	11									

## Building Parts

Screen ring		5	5	5	5	5	5	5	5	5
CO gas sensor										2
PCB	4	6	8	9	9	9	9	9	9	9

## Typical energy consumption

P2- operation	[kWh/a]	42	48	70	70	70	70	70	70	90
Alternative operating	[kWh/a]				22		31	49	60	20

## Disposal



The device is classified as waste electronic equipment in terms of the European Directive 2012/19/EU (WEEE) and must not be disposed of as unsorted municipal waste. Regarding disposal, use the systems setup for collecting electronic waste. Observe all local and applicable laws.

## Comments

### EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

### Regulation (EC) No. 1907/2006 (REACH)

To the best of our knowledge and according to the information of our suppliers the above mentioned device and its packaging contain no substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, which will become known at a later date, are listed on the delivery note.

(Status according to the creation date of this document.)

### Environmental benefits

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

### Further notes and comments:

Accessories:		Total weight	Fire load
FDB201/221 Detector base (*)	ABS, white (PA, colored)	18 g	0.7 MJ
FDB202/222 Detector base (*)	ABS, white (PA, colored)	17 g	0.7 MJ
FDBZ293 Detector locking device	Stainless steel	1 g	--- MJ
FDZ291 Detector dust cap	PS red	5 g	--- MJ
FDB241 Base adaptor Sinteso(SIGMA/A+)	ABS white	84 g	3 MJ
FDB299 Base adaptor Sinteso (AlgoRex-C)	ABS white	84 g	3 MJ
FDB291 Base attachment	ABS white	35 g	1.3 MJ
FDB293 Base attachment wet (IP55)	ABS white / PC 20% GF	260 g	8.0 MJ
FDB294 Base wet	ABS white / PC 20% GF	386 g	10.0 MJ
FDB281 Base adapter MS8 / SintesoTM	ABS white	86 g	2.8 MJ
DBZ1194 Protective cage	Stainless steel	170 g	--- MJ
FDBH291 Detector heating	ALU / PA 6	20 g	0.1 MJ
FDBZ291 Designation plate	PC, transparent	2 g	0.1 MJ
DBZ1193 Designation plate	PC, transparent	6 g	0.2 MJ
FDBZ294 Protective cage	Stainless steel	245 g	--- MJ
FDBZ295 Sealing FDB201/221	TPE, natur / PC weiss	36 g	1.3 MJ

(\*) Detector base incl. Terminal block cpl. 6-pole

### Legal Disclaimer: This declaration is for information purpose 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.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.