

Features

- Addressable high-temperature heat detector
- Available in different variants with fixed alarm temperatures
- Up to 10 m distance between the sensor and the interface unit
- Stainless steel sensor mechanics
- Protection grade IP66 (sensor)
- EN 54-5, Category ES (120 variant) or FS (140 variant) when used with an external indicator
- Works with all AutroSafe and Autroprime versions supporting BD-200M



Description

High-temperature heat detector for detection of rise in environment temperature caused by a fire. The detector is designed for use with Autronica's interactive fire detection systems.

The heat detector consists of a stainless steel sensor element and an interface unit. The sensor element is suitable for high-temperature detection areas like saunas or kitchens. The interface unit should be mounted in a normal temperature area, up to 10 m from the sensor.

The detector is recognized as a BD-200M by both AutroSafe and Autroprime panels.

Applications

BD-200PT is often used in areas where the environment is likely to produce false/unwanted alarms from smoke detectors and low-temperature heat detectors, such as:

- Sauna
- Kitchen
- Galley
- Steam rooms

Temperature variants

BD-200PT is available in different variants with fixed alarm temperatures, according to EN 54-5's detector categories:

Variant	Detector category *	Typical application temperature °C	Maximum application temperature °C	Minimum static response temperature °C	Maximum static response temperature °C
84	CS	55	80	84	100
100	DS	70	95	99	115
120	ES	85	110	114	130
140	FS	100	125	129	145

Technical specification

Sensor

Technical specifications sensor	
Dimensions	(see dimension drawing)
Weight	105 g
Shipping weight	120 g
Materials	Stainless steel 316L
Color	Silver
Ingress protection	IP66
Operating temperature	-25 °C – +150 °C
Storage temperature	-40 °C – +85 °C
Humidity	0 % – 100 % rh
Wiring/terminals	(see wiring diagram)
Cable requirements	0.5 mm ² – 1.5 mm ² Recommended for highest precision: 0.75 mm ²
Cable glands/size	M20
Maintenance	None
Service	Replace if faulty
Approvals	See the Autronica website

* For compliance with the EN 54-5 standard, detector categories ES and FS require an external visual indicator to be connected (we recommend 116-BU-47).

The detector also meets the functional requirements of categories CS and DS. However, EN 54-5 requires an integral visual indicator for these categories. As the BD-200PT does not include an integral LED indicator, the EN 54-5 Clause 4.2.2 "Individual alarm indication" performance is not declared.

Interface unit

Technical specifications interface unit	
Dimensions	(see dimension drawing)
Weight	145 g
Shipping Weight	210 g
Materials	Fiberglass reinforced polycarbonate (PC +GF10%)
Color	Light gray
Operating voltage (AL_Com Interface)	16 V – 26 V
Current consumption (incl. sensor)	314 µA
Peak current consumption (with LED during alarm)	5.4 mA
Ingress protection	IP54 with membrane glands (included) IP66 with suitable cable glands (optional)
Operating temperature	-25 °C – +70 °C
Storage temperature	-40 °C – +85 °C
Humidity	0 % – 95 % rh, non-condensing
Wiring/terminals	(see wiring diagram)
Cable requirements	Minimum 0.14 mm ² / AWG26 Maximum 2.5 mm ² / AWG14
Cable glands/size	M20
Indicator *	External LED (116-BU-47 is recommended)
Compatibility	• AutroMaster (all versions) • AutroSafe (version 3.x.x or later) • Autroprime (version 1.0.4.0 or later)
Maintenance	None
Service	Replace if faulty
Approvals	See the Autronica Web site

Part numbers

Part number	Description
116-BD-200PT/84-KIT	Heat detector kit with sensor and interface unit for alarm temperature 84 °C
116-BD-200PT/100-KIT	Heat detector kit with sensor and interface unit for alarm temperature 100 °C
116-BD-200PT/120-KIT	Heat detector kit with sensor and interface unit for alarm temperature 120 °C
116-BD-200PT/140-KIT	Heat detector kit with sensor and interface unit for alarm temperature 140 °C

Replacement parts

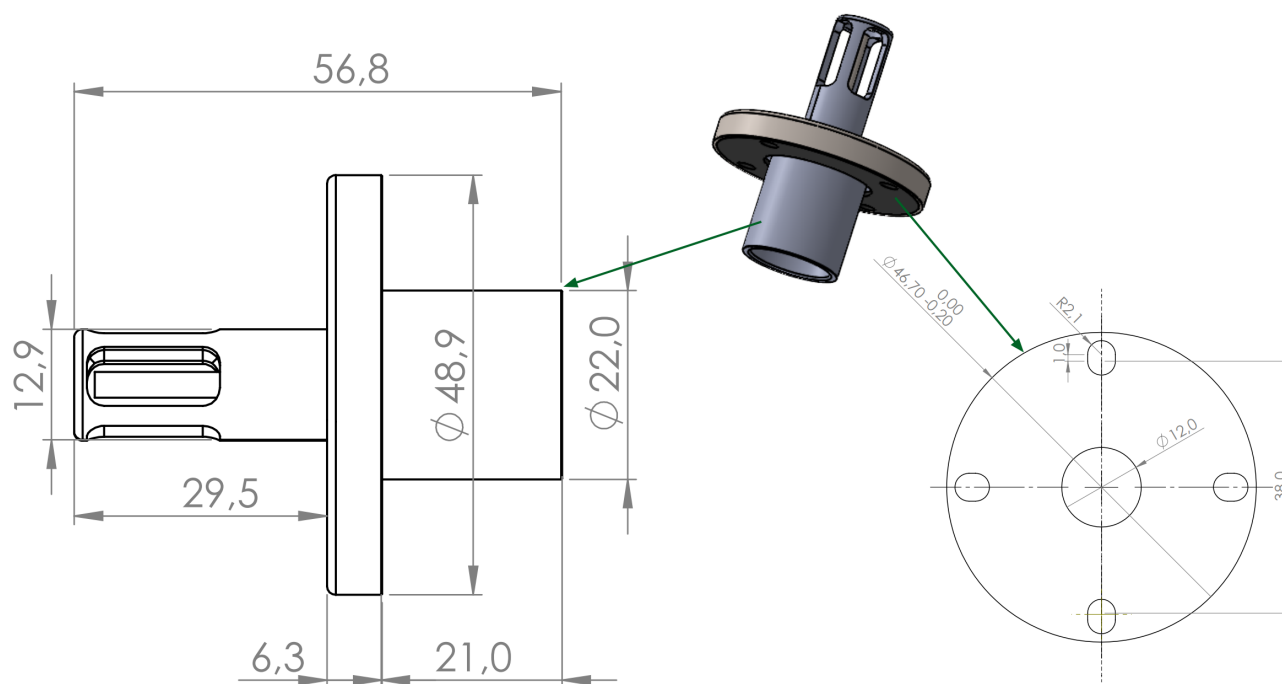
Part number	Description
116-BD-200PT-I/84	Spare heat detector interface unit for alarm temperature 84 °C
116-BD-200PT-I/100	Spare heat detector interface unit for alarm temperature 100 °C
116-BD-200PT-I/120	Spare heat detector interface unit for alarm temperature 120 °C
116-BD-200PT-I/140	Spare heat detector interface unit for alarm temperature 140 °C
116-BD-200PT-S	Spare heat detector sensor

Accessories

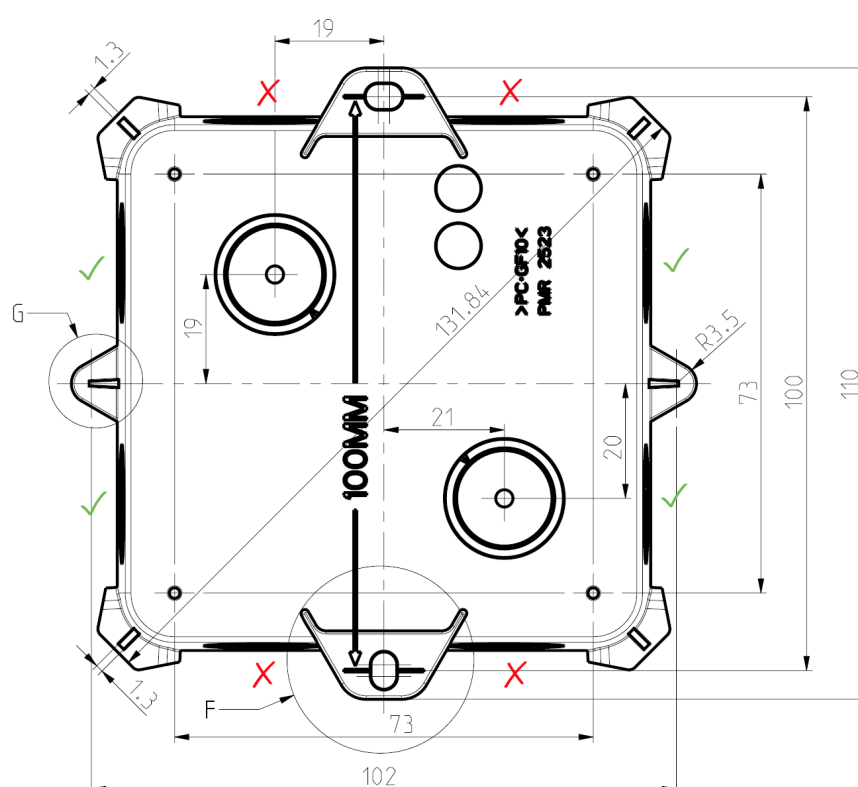
Part number	Description
116-BU-47	Remote alarm indicator
116-6571-011.6020	Membrane glands for the interface unit (included)
116-6571-011.1920	Cable glands for the interface unit (not included, needed for ingress protection level 66)
116-6531-006.1920	Back nuts for the interface unit (not included, needed for ingress protection level 66)

Dimension (mm)

Sensor



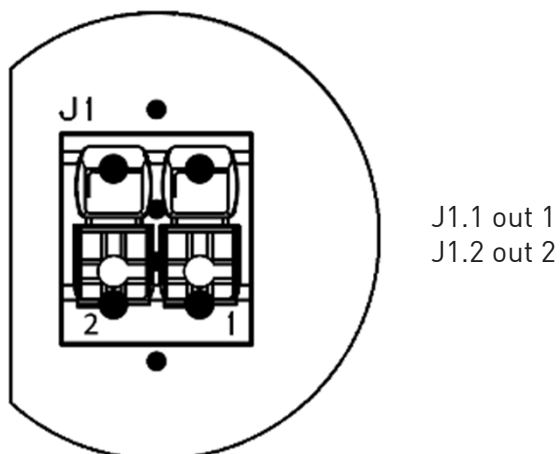
Interface unit



When mounting, use only the cable glands marked with ✓, not the ones marked with X.

Wiring diagrams

Sensor



Interface unit

