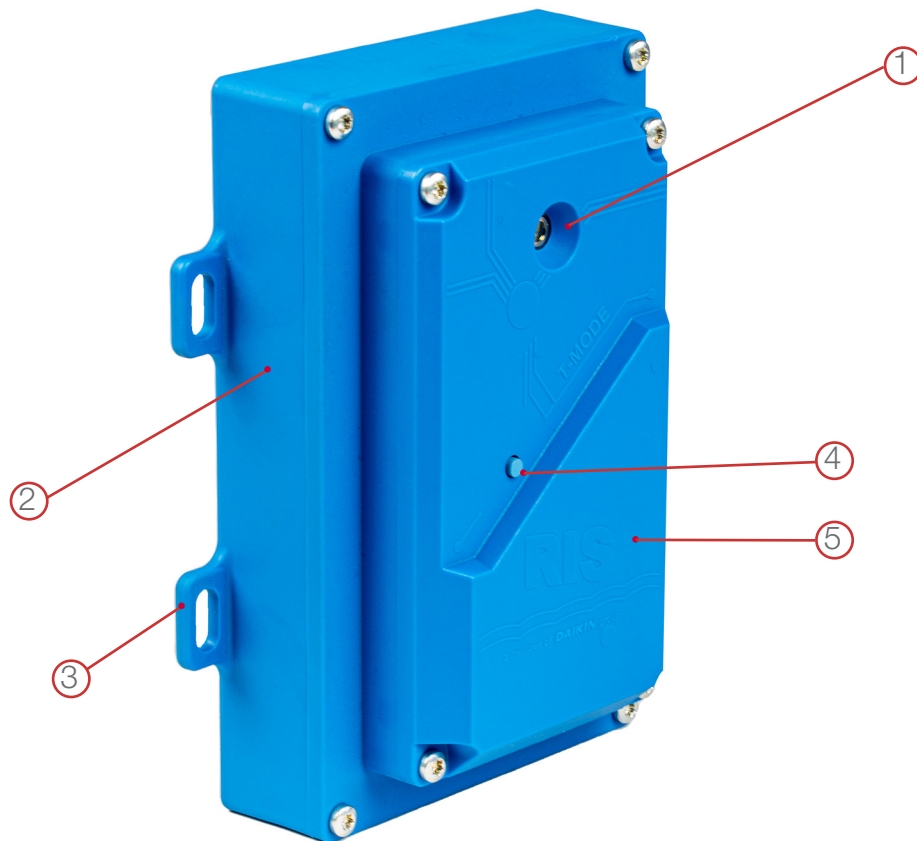


# Infrared Temperature Sensor

## RIS FSX SENSORS – THE PREDICTIVE MAINTENANCE SOLUTION

### Sensor description

The sensor is equipped with a narrowband IoT modem, which enables uninterrupted data transmission even in buildings with many obstacles for radio waves or even when installed underground. The sensor is battery-powered and thus completely self-sufficient in combination with narrowband IoT transmission technology. The RIS-FSX infrared temperature sensor can detect object temperatures in a measuring range of -70 °C to +380 °C without contact.



### Particle sensor

1. Infrared temperature sensor
2. Battery case
3. Brackets for sensor attachment
4. T-mode button (function test)
5. Sensor housing cover

# Infrared Temperature Sensor

## Technical data of the infrared temperature sensor (ITS)

During the infrared temperature sensor (ITS) assembly, make sure that there are no other objects between the one to be measured and the sensor. Please contact the manufacturer for more information on the assembly location and connection of the sensor.

### Basic data

Information	Value (unit)
Height	120 mm
Width	70 mm
Depth	30 mm
Operating temperature	-30 ~ +70 °C
Transmitting power	+14 dBm
Receive level	164 dB
Start-up time	≤1 min (≤15 min. for full measuring accuracy)
Weight incl. battery	180 ±0.2 g
Housing material	Durethan B30S

### Operating data/conditions

Information	Value (unit)
Object temperature	-70 °C to 380 °C in 0.1 °C steps (16 bit resolution)
Ambient temperature	-40 °C to 85 °C in 0.1 °C steps (16 bit resolution)
Accuracy	0.5 °C across a wide temperature range

AAF International  
European Headquarters  
Odenwaldstrasse 4, 64646 Heppenheim  
Tel: +49 (0)6252 69977-0  
aafeurope.com

RIS Facility Management GmbH  
Erlen 4, 75031 Eppingen, Germany  
+49 7262 / 208815

RIS-BG Environmental GmbH  
Kelterplatz 10, 71549 Auenwald, Germany  
+49 7191 / 903 1020  
www.ris-group.de



Specifications and performance data contain average values within existing production specification tolerances and are subject to change without prior notice. AAF explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this information.

©2025 AAF International and its affiliated companies.  
SENS\_1307\_EN\_042025