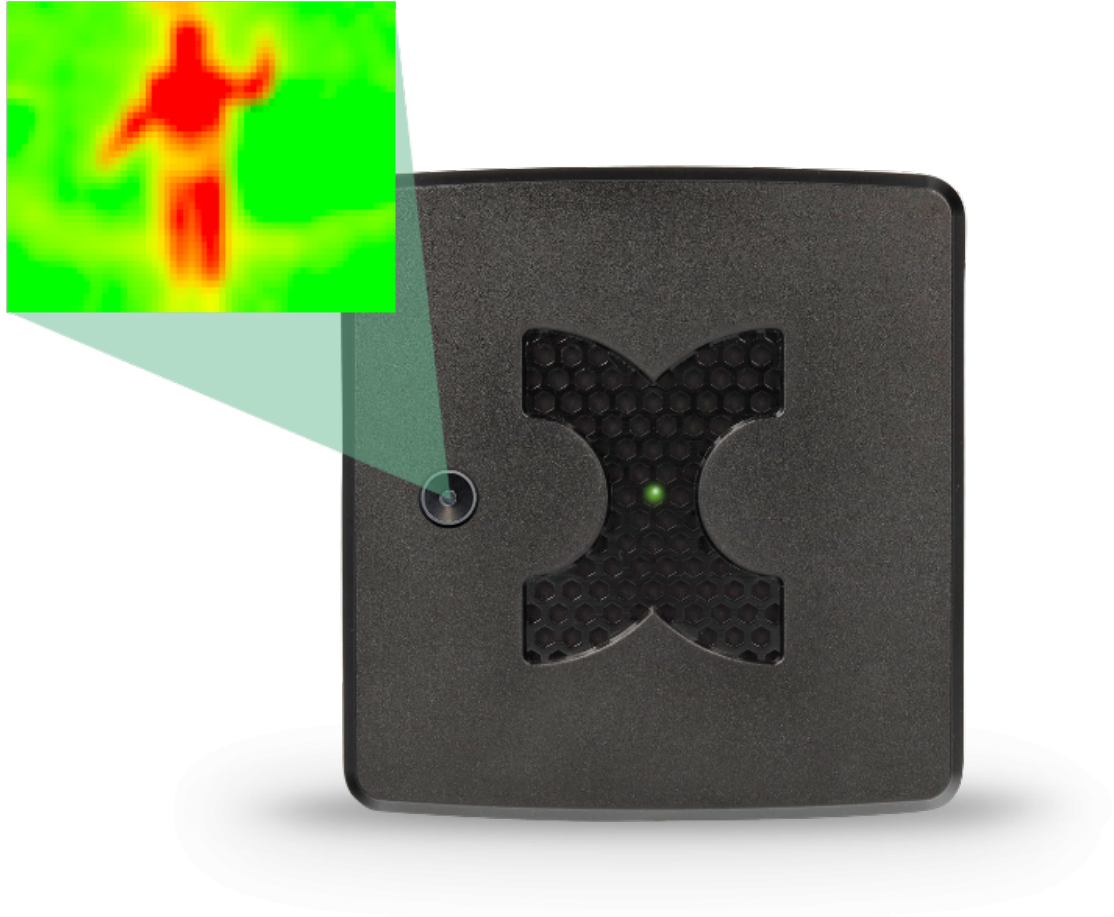


MultiSensor-Thermal Image - Datasheet



ORDER-CODES:

KMS-TI-90-B, KMS-TI-90-W, KMS-TI-90-B-BLE, KMS-TI-90-W-BLE, KMS-TI-40-B, KMS-TI-40-W, KMS-TI-40-B-BLE, KMS-TI-40-W-BLE

| | |
|-----------------------------------|---|
| Function | MultiSensor for early fire detection and room/area monitoring |
| Integrated software | KentixONE via integrated web server (HTTPS) |
| Sensor - air temperature | Measuring range -40 to 85°C (accuracy $\pm 0.5^\circ\text{C}$) |
| Sensor - Relative humidity | Measuring range 0 to 100% (accuracy $\pm 3\%$) |
| Sensor - dew point | Calculated in $^\circ\text{C}$ |

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| Sensor - surface temperature | 1024 pixel infrared array with germanium glass optics, measuring range -40 to 1,000°C, detection cone depending on type: 40° or 90°, range up to approx. 5m, measurement: temperature image (32x32), movement NETD (Noise Equivalent Temperature Difference): approx. 150mK/1Hz |
| Sensor - Vibration | 3-axis accelerometer with position detection (sensitivity adjustable), measuring range 0.25-5G |
| Sensor - Carbon monoxide (CO) | 0-1,000ppm measurement ± 10%, internal resolution: 20-1,000ppm (0-100%), service life 10 years |
| Sensor - air quality (VOC, CO2) | Measurement according to IAQ (Index for Air Quality), IAQ value 0-500 according to IAQ table*. |
| Signal generator | 85dB, 2.3kHz |
| External alarm inputs (KENTIX system socket) | 2x alarm input (e.g. armed-active, continuous-active alarm), wiring with potential-free contacts via separate KIO3 IO adapter |
| External signal outputs (KENTIX system socket) | 2x signal output (e.g. armed-active alarm, continuous-active alarm), wiring via separate KIO3 IO adapter with relay outputs |
| LED | ALARM (red), RUN (green), LINK/ACT to LAN socket |
| Ethernet with PoE | 10/100Mbit (default IP: 192.168.100.222) Power supply via PoE Class 2, power consumption approx. 3W |
| Radio (BLE 2.4GHz) (according to version) | 2.4GHz ISM band (BLE), 128-bit encryption |
| SD card | Integrated Micro SD card holder as additional memory for image recording, up to 128 GB |
| SNMP | SNMP V2/3 (write/read), SNMP Traps (Simple Network Management Protocol) |
| ReST API | ReST API with JSON objects (HTTPS), webhooks |
| Housing | Material: PS 90 x 90 x 45 mm Weight approx. 100g Colors: White, Black |
| Environmental conditions | Temperature 0 - 50°C, humidity 5-95%, non-condensing |
| Versions | KMS-TI-40-B-BLE (Black housing, 40° optics) KMS-TI-40-W-BLE (White housing, 40° optics) KMS-TI-90-B-BLE (Black housing, 90° optics) KMS-TI-90-W-BLE (White housing, 90° optics) KMS-TI-40-B (black housing, 40° optics) KMS-TI-40-W (white housing, 40° optics) KMS-TI-90-B (black housing, 90° optics) KMS-TI-90-W (white housing, 90° optics) |

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|--------------------------|--|
| Scope of delivery | Mounting bracket, mounting material, SlimLine cable 3m |
| Accessories | PoE injector (KPOE150S) IO adapter (KIO3) Leakage sensor (KLS03) |
| Certification | CE |

Thermal image sensor field of view

40° optics (ART: KMS-TI-40-x-x)

| Measuring distance | Area | Measuring grid |
|--------------------|-----------------------|----------------|
| 1m | 73 x 73cm (0,53sqm) | 2,27 x 2,27cm |
| 2m | 145 x 145cm (2,12sqm) | 4,55 x 4,55cm |
| 3m | 218 x 218cm (4,55sqm) | 6,82 x 6,82cm |
| 4m | 291 x 291cm (9,10sqm) | 9,10 x 9,10cm |

90° optics (ART: KMS-TI-90-x-x)

| Measuring distance | Area | Measuring grid |
|--------------------|------------------------|-----------------|
| 1m | 200 x 200cm (4,00sqm) | 6,25 x 6,25cm |
| 2m | 400 x 400cm (16,00sqm) | 12,50 x 12,50cm |
| 3m | 600 x 600cm (36,00sqm) | 18,75 x 18,75cm |
| 4m | 800 x 800cm (64,00sqm) | 25,00 x 25,00cm |

Measurement of air quality according to IAQ Index*

| Air index | Air quality | Effects (long-term exposure) | Proposed measure |
|------------------|----------------|--|----------------------|
| 0 - 50 | Excellent | Clean air; the best for the well-being | No measures required |
| 51 - 100 | Good | No irritation or effects on well-being | No measures required |
| 101 - 150 | Lightly soiled | Reduction of the well-being possible | Ventilation proposed |

| | | | |
|------------------|------------------|---|--|
| 151 - 200 | Moderately dirty | Clearer irritation possible | Increase ventilation with clean air |
| 201 - 250 | Heavily soiled | Depending on the type of VOCs, exposure can lead to effects such as headaches | Improve ventilation |
| 251 - 350 | Heavily soiled | More serious health problems possible if harmful VOCs are present | Contamination should be identified when level is reached even without people present; maximize ventilation & reduce presence |
| > 351 | Extremely dirty | Headache, additional neurotoxic effects possible | Contaminants must be identified; avoid presence in the room and maximize ventilation |