CONVENTIONAL FIRE ALARM SYSTEM

TFP-404
4 Zone Conventional Fire Alarm Panel

EN54-2 **EN54-4**

TFP-404 supports 4 zones and maximum 32 Conventional detectors and manual call points. It is the first choice of professionals with its solid metal body design, easy installation, and high performance.
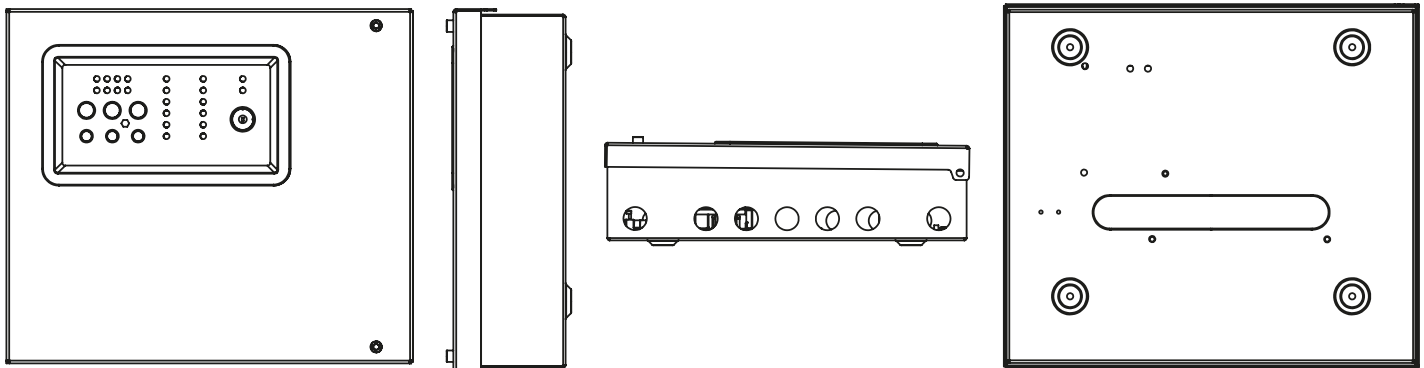
GENERAL FEATURES

- EN 54-2 and EN 54-4 Certified
- Fully Monitorable 4 Zone Capacity
- Maximum 32 Conventional Detectors for Each Zone
- User-friendly, Easy to Manage Indicator Panel
- Separate Fire and Error LEDs for Each Zone
- Smart Battery Charging Feature Extending Battery Life
- Smart Start Feature that Prevents Direct Starting from the Battery
- Walk-through Test Function that can be Performed by a Single Person
- Disabling of Each Zone Individually

- Supervision for Siren Outputs and Zone Inputs Against Faulty
- Connections with EOL Resistances
- 2X 500mA Siren Outputs Allowing Maximum 50 Sounder Connection (if used Teknim TFS-3192 sounders)
- 24VDC 500mA External Supply Output with Automatic Fuse (AUX)
- 1X NC/NO Fire Relay (Button alarm, detector alarm, etc.)
- 1X NC/NO Error Relay (Energy failure, zone failure, battery failure etc.)
- Key Lock to Prevent Unauthorized Access
- Switch Mode Power Supply (SMPS) (27.6VDC SMPS 1.5Ah Automatic Fuse)

General Specifications	TFP-404
Standard	EN54-2 / EN54-4
Zones	4
Maximum Numbers of Detectors	32
EOL	4K7 ohm, %5, 1/4W
Operating Voltage	230 / 110 VAC (+%10 / -%15)
Operating Frequency	50 / 60 Hz (±%5)
Power Fuse	2A
Backup Battery	2X 12V, 7Ah
Imin	75mA
ImaxA	500 mA
ImaxB	1,5 A
Number of Monitored Sounder Outputs	2X 500mA
Sounder EOL	4K7 ohm, %5, 1/4W
General Error Relay	1X NC/NO Dry Contact, 30V 2Ah
Fire Relay	1X NC/NO Dry Contact, 30V 2Ah
AUX	1X 24VDC 500mA
Dimensions (mm)	340 x 300 x 100 mm
Body material and color	Metal - Light Grey
Weight	4,4Kg (Without Battery)
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP30

TFP-408
8 Zone Conventional Fire Alarm Panel

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EN54-2 **EN54-4**

TFP-408 has 8 zones and maximum 32 Conventional fire detectors and manual call points can be connected to each zone. It is the first choice of professionals with its elegant metal body design, easy installation and high performance. The panel meets all technical values required under European Standards.

GENERAL FEATURES

- Maximum 32 Conventional Detectors for Each Zone
- User-friendly, Easy to Manage Indicator Panel
- Separate Fire and Error LEDs for Each Zone
- Smart Battery Charging Feature Extending Battery Life
- Smart Start Feature that Prevents Direct Starting from the Battery
- Walk-through Test Function that can be Performed by a Single Person
- Disabling of Each Zone Individually
- Supervision for Siren Outputs and Zone Inputs Against Faulty Connections with EOL Resistances

- 2X 500mA Siren Outputs Allowing Maximum 50 Sounder Connection (if used Teknim TFS-3192 sounders)
- 24VDC 500mA External Supply Output with Automatic Fuse (AUX)
- 1X NC/NO Fire Relay (Button alarm, detector alarm, etc.)
- 1X NC/NO Error Relay (Energy failure, zone failure, battery failure etc.)
- Key Lock to Prevent Unauthorized Access
- Switch Mode Power Supply (SMPS) (27.6VDC SMPS 1.5Ah Automatic Fuse)

General Specifications	TFP-408
Standard	EN54-2 / EN54-4
Zones	8
Maximum Numbers of Detectors	32
EOL	4K7 ohm, %5, 1/4W
Operating Voltage	230 / 110 VAC (+%10 / -%15)
Operating Frequency	50 / 60 Hz (±%5)
Power Fuse	2A
Backup Battery	2X 12V, 7Ah
Imin	75mA
ImaxA	500 mA
ImaxB	1,5 A
Number of Monitored Sounder Outputs	2X 500mA
Sounder EOL	4K7 OHM, %5, 1/4W
General Error Relay	1 X NC/NO Dry Contact, 30V, 2A
Fire Relay	1 X NC/NO Dry Contact, 30V, 2A
AUX	1X 24VDC 500mA
Dimensions (mm)	340 x 300 x 100 mm
Body material and color	Metal - Light Grey
Weight	4,4kg (Without Battery)
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP30

TFD-4230
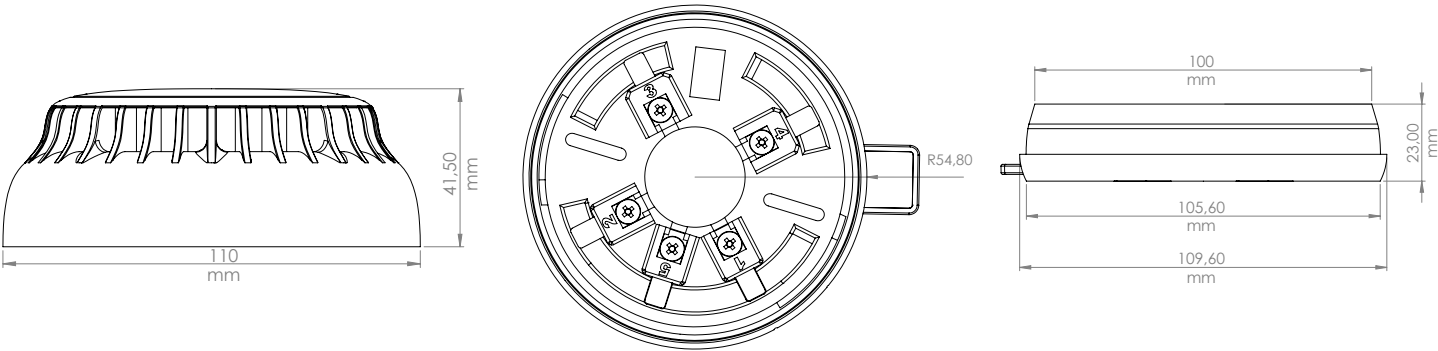## Conventional Optical Smoke Detector

teknim®
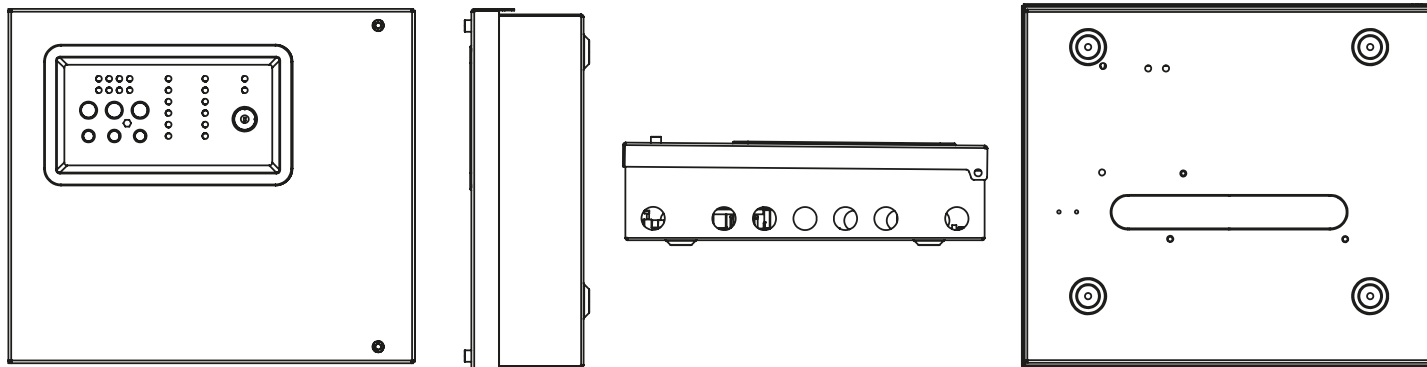
EN54-7

TFD-4230 Conventional Optical Smoke Detector uses advanced Light Scatter technology to detect smoke entering in its chamber. Detector provides maximum level of protection with its advanced optical sensing technology. It has a series of software algorithms to minimize faulty detections and to provide pollution warning. Smoke chamber can be easily removed for cleaning in case of possible pollutions in excessively dusty environments.

GENERAL FEATURES

- EN54-7 Certified
- Detects Smoke Particles in the Environment via Light Scatter Principle
- Supports 2X LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Special Software Algorithms to Eliminate Sudden Dust, Smoke, etc. Which May Cause Faulty Alarms
- Supports Remote Indicator Connection
- Easy to Clean Smoke Chamber
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel

Technical Specifications	TFD-4230
Standard	EN54-7
Operating Type	Optical
Detection Level	0,15 dB/m
Power	18-30VDC
Average Consumption	30µA@24V
Alarm Consumption	50mA @24V (Limited with 470Ω)
Indicator Current	10mA @24V (Limited with 2K2Ω)
Starting Time	15sec.
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10˚C ~ 55˚C
Humidity	95% RH
Protection Class	IP30

41,50 mm

110 mm

R54,80

100 mm

23,00 mm

105,60 mm

109,60 mm

46

TFD-4240
Conventional Fixed Heat Detector
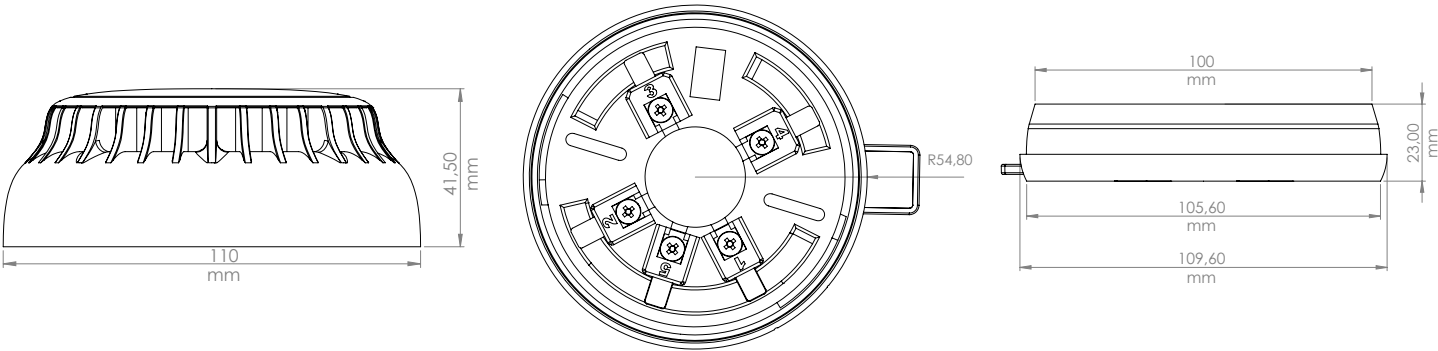
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EN54-5

TFD-4240 Conventional Fixed heat detector uses two NTC for precise measurement of the environment to detect fire. Detector classified as A2S and will report an alarm at 55°C.

GENERAL FEATURES

- EN54-5 Certified
- Designed with 2 NTCs to Ensure More Accurate and Precise Temperature Measurement
- Classified as A2S
- Supports 2x LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Supports Parallel Indicator Connection Terminals
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel

Technical Specifications	TFD-4240
Standard	EN54-5
Operating Type	A2S
Power	18-30VDC
Average Consumption	30µA@24V
Alarm Consumption	50mA @24V
Indicator Current	10mA @24V
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10˚C ~ 70˚C
Humidity	95% RH
Protection Class	IP30

TFD-4245
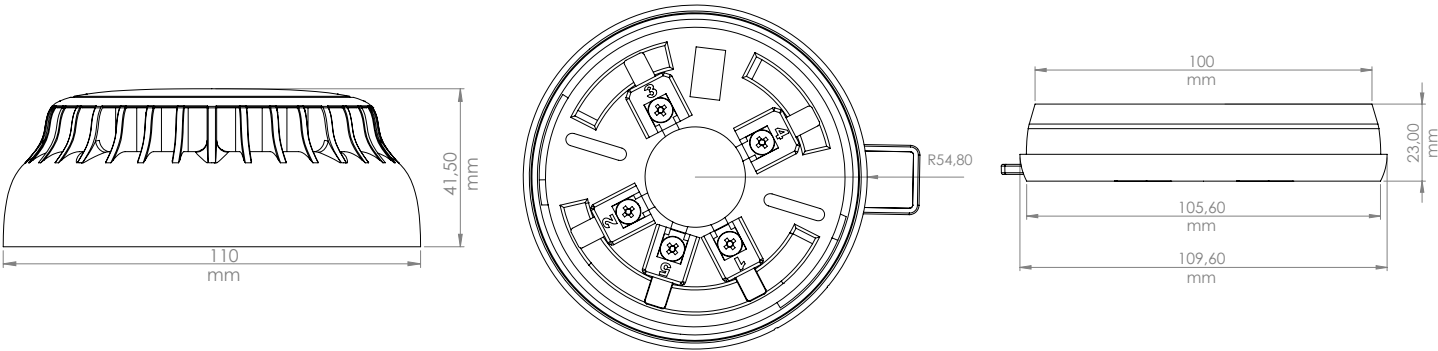## Conventional Rate of Rise Heat Detector

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EN54-5

TFD-4245 Conventional rate of rise heat detector designed to detect rapid temperature rise by using 2 NTCs to make an accurate measurement in the environment.
Detector supports different special software algorithms to prevent false alarms.

GENERAL FEATURES

- EN54-5 Certified
- Designed with 2 NTCs to Ensure More Accurate and Precise Temperature Measurement
- Classified as A2R
- Supports 2x LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Supports Parallel Indicator Connection Terminals
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel

Technical Specifications	TFD-4245
Standard	EN54-5
Operating Type	A2R
Power	18-30VDC
Average Consumption	30µA@24V
Alarm Consumption	50mA @24V
Indicator Current	10mA @24V
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10˚C ~ 70˚C
Humidity	95% RH
Protection Class	IP30

41,50 mm
110 mm

R54,80

100 mm
23,00 mm
105,60 mm
109,60 mm

TFD-4250
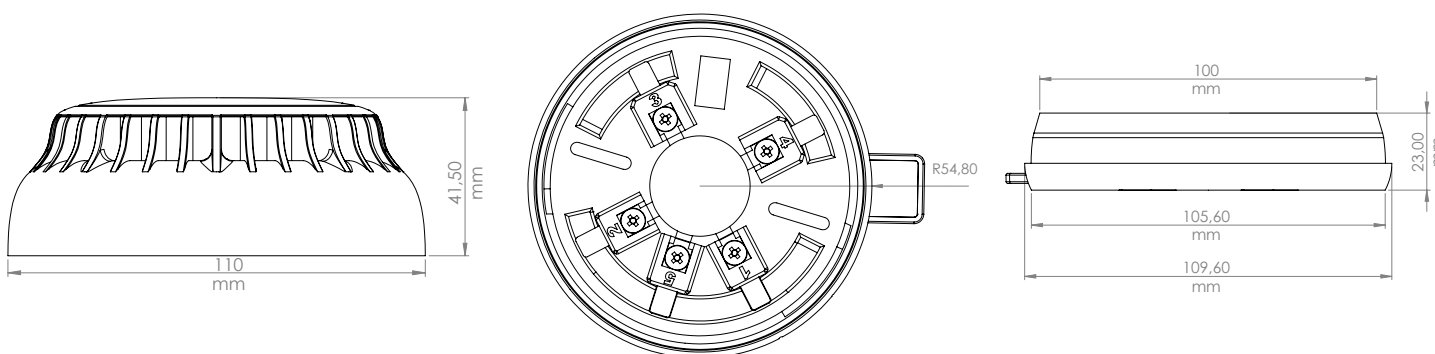## Conventional Multi Detector (Optical Smoke and Heat)

teknim ®

EN54-7 EN54-5

TFD-4250 Conventional Multi Detector uses optical and heat sensing technologies to detect fire condition. Detector has a series of algorithms developed to minimize faulty detections.

GENERAL FEATURES

- EN54-7 and EN54-5 Certified
- Detects Smoke Particles in the Environment via Light Scatter Principle
- Detector Classified as A2S for Heat Detection
- Supports 2x LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Special Software Algorithms to Eliminate Sudden Dust, Smoke, etc. Which May Cause Faulty Alarms
- Supports Parallel Indicator Connection Terminals
- Easy to Clean Smoke Chamber
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel

Technical Specifications	TFD-4250
Standard	EN54-7 - EN54-5
Operating Type	Optical and Heat
Detection Level	0,15 dB/m A2S (Between 55°C ~ 70°C)
Power	18-30VDC
Average Consumption	30μA@24V
Alarm Consumption	50mA @24V
Indicator Current	10mA @24V
Starting Time	15sec.
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10°C ~ 70°C
Humidity	95% RH
Protection Class	IP30

41,50 mm

110 mm

R54,80

100 mm

23,00 mm

105,60 mm

109,60 mm

TFD-3230
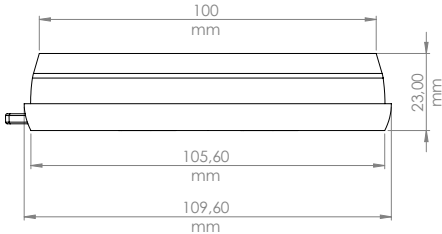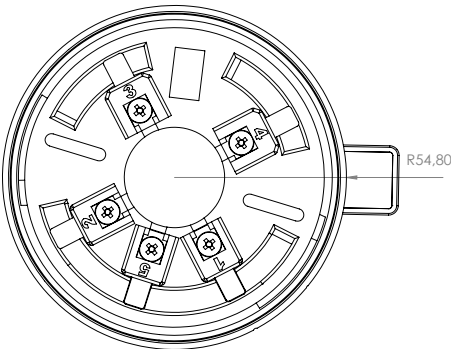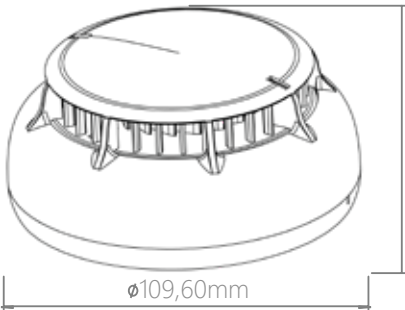## Conventional Optical Smoke Detector

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EN54-7

TFD-3230 Conventional Optical Smoke Detector designed to provide maximum level of protection for small and medium sized places with its advanced optical sensing technology. Detector has a series of algorithms developed to minimize faulty detections and to provide pollution warning. Smoke chamber can be easily removed for cleaning in case of possible pollutions in excessively dusty environments.

GENERAL FEATURES

- EN54-7 Certified
- Detects Smoke Particles in the Environment via Light Scatter Principle
- Supports 2X LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Special Software Algorithms to Eliminate Sudden Dust, Smoke, etc. Which May Cause Faulty Alarms
- Supports Remote Indicator Connection Terminals
- Easy to Clean Smoke Chamber
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel

Technical Specifications	TFD-3230
Standard	EN54-7
Operating Type	Optical
Detection Level	0,15 dB/m
Power	18-30VDC
Average Consumption	30µA@24V
Alarm Consumption	50mA @24V (Limited with 470 Ω)
Indicator Current	10mA @24V (Limited with 2K2 Ω)
Starting Time	15sec.
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10˚C ~ 55˚C
Humidity	95% RH
Protection Class	IP30

41,50mm

ø109,60mm

R54,80

100 mm

23,00 mm

105,60 mm

109,60 mm

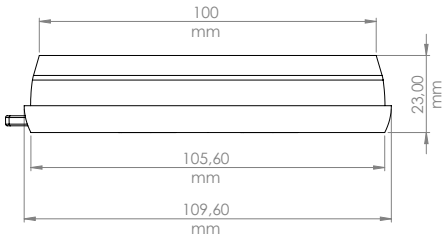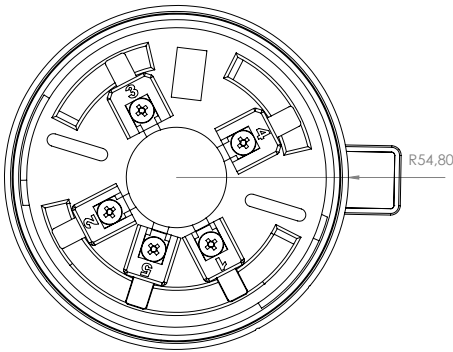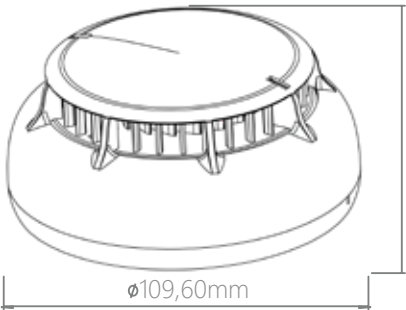# TFD-3240
Conventional Fixed Heat Detector

EN54-5

TFD-3240 Conventional fixed heat detector uses two NTC for precise measurement of the environment to detect fire. Detector classified as A2S and will report an alarm at 55°C.

GENERAL FEATURES

- EN54-5 Certified
- Designed with 2 NTCs to Ensure More Accurate and Precise
- Temperature Measurement
- Classified as A2S
- Supports 2x LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Supports Remote Indicator Connection Terminals
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel

Technical Specifications	TFD-3240
Standard	EN54-5
Operating Type	A2S
Power	18-30VDC
Average Consumption	30µA@24V
Alarm Consumption	50mA@24V
Indicator Current	10mA@24V
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10°C ~ 70°C
Humidity	95% RH
Protection Class	IP30

41,50mm

ø109,60mm

R54,80

100 mm

105,60 mm

109,60 mm

23,00 mm

TFD-3245
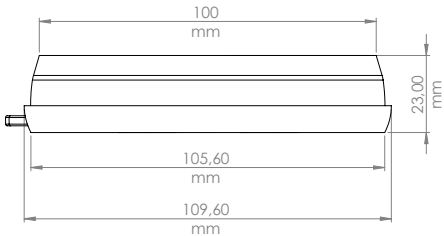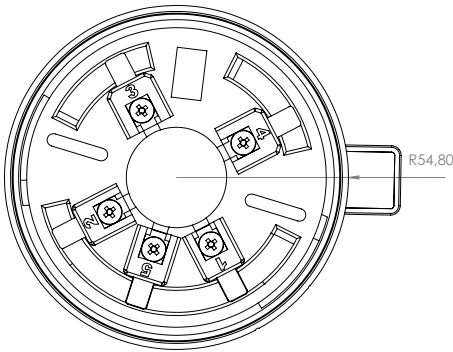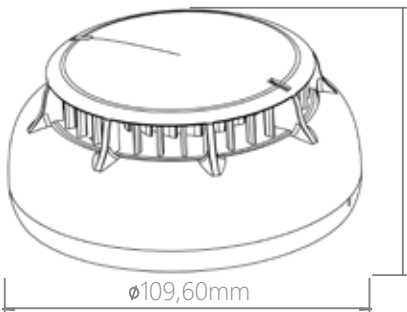## Conventional Rate Of Rise Heat Detector

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EN54-5

TFD-3245 Conventional rate of rise heat detector designed to detect rapid temperature rise by using 2 NTCs to make an accurate measurement in the environment.
Detector supports different special software algorithms to prevent false alarms.

GENERAL FEATURES

- Conforms EN54-5
- Designed with 2 NTCs to ensure more accurate and precise temperature measurement
- Detector can be operating as A2R class
- 2 LED indicators enabling 360° view
- Two different colors of indication by LEDs to individually display error and alarm conditions (Blue/Red)
- Supports remote indicator connection terminals
- Aesthetic and elegant design fits any environment
- Compatible with any brand of conventional fire pane

Technical Specifications	TFD-3245
Standard	EN54-5
Operating Type	A2R
Power	18V(min) – 30V(max)
Average Consumption	30µA@24V
Alarm Consumption	50mA@24V
Indicator Current	10mA@24V
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10°C ~ 70°C
Humidity	95% RH
Protection Class	IP30

41,50mm

ø109,60mm

R54,80

100 mm

23,00 mm

105,60 mm

109,60 mm

TFD-3250
Conventional Multi Detector (Optical Smoke and Heat)
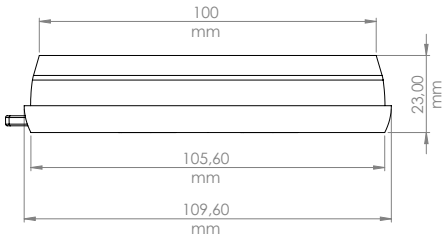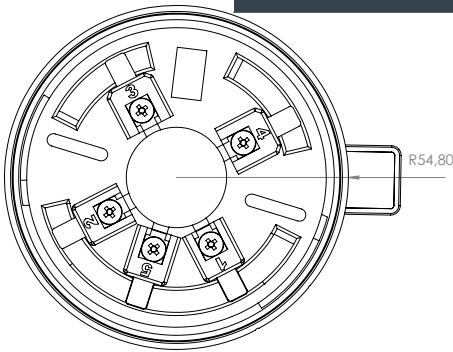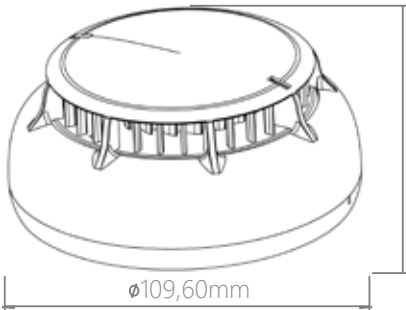
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EN54-7 EN54-5

TFD-3250 Conventional Optical Smoke + Heat Detector uses optical and heat sensing technologies. Detector has a series of algorithms developed to minimize faulty detections.

GENERAL FEATURES

- EN54-7 and EN54-5 Certified
- Detects Smoke Particles in the Environment via Light Scatter Principle
- Detector Classified as A2S for Heat Detection
- Supports 2x LED Indicators Enables 360° view
- Two Different Colors of Indication by LEDs to Individually Display Error and Alarm Conditions (Blue/Red)
- Special Software Algorithms to Eliminate Sudden Dust, Smoke, etc.
- Which May Cause Faulty Alarms
- Supports Remote Indicator Connection Terminals
- Easy to Clean Smoke Chamber
- Aesthetic and Elegant Design Fits any Environment
- Compatible with any Brand of Conventional Fire Panel r

Technical Specifications	TFD-3250
Standard	EN54-5, EN54-7
Operating Type	Optical and Heat
Power	18V(min) – 30V(max)
Detection Level	0,15 dB/m A2S (Between 55°C-70°C)
Average Consumption	30µA@24V
Alarm Consumption	50mA@24V
Indicator Current	10mA@24V
Starting Time	15sec.
Weight (Include Base / Not)	183gr / 125gr
Dimensions (mm)	Ø110, h:42 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED
Status LED	Blue
Operating Temperature	-10°C ~ 70°C
Humidity	95% RH
Protection Class	IP30

41,50mm

ø109,60mm

R54,80

100 mm

23,00 mm

105,60 mm

109,60 mm

TSD-701
Conventional Natural Gas Detector

TSD-701 is a natural gas detector which can be connected to conventional fire alarm systems (NO) and Intruder alarm systems (NC) or to be used as a stand-alone device with 12-24V external power supply.
It is equipped with 85dB on-board buzzer for audio warning, and with red/ yellow/ green colored led indicators for visual warning.
TSD-701 natural gas detector is suitable for ceiling and wall installations. Detector also provides a test button on it to perform tests for all visual and audio warnings.

GENERAL FEATURES

- TSE TS-EN 50194-1 Certified
- 85dB Alarm Sound Level
- TEST Button for Buzzer and LEDs
- 2x LED Indicators Enable 360° View from All Directions
- NO Relay for Fire Alarm Systems and NC Relay for Intruder Alarm Systems
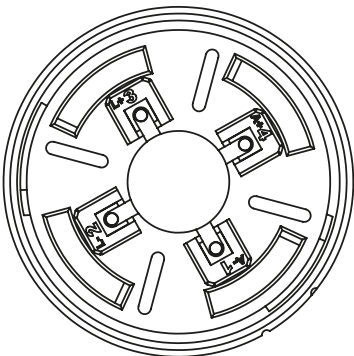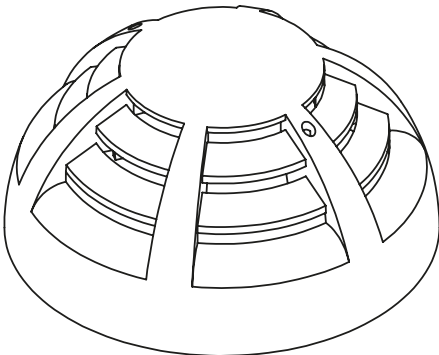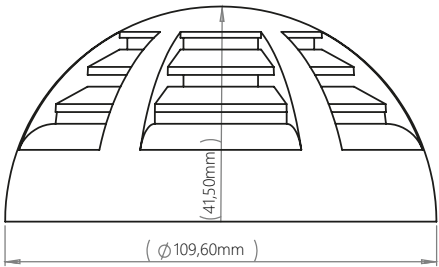
Technical Specifications	TSD-701
Standard	TS-EN 50184-1
Operating Type	MQ5 Gas Sensor
Device Type	A
Detection Level	%10 LEL
Sound Indicator	Continuous: Gas Alarm Intermittent: Sensor Fault
Sound Level	≥85dB (at 1mt)
LED Indicator	Alarm: RED, Fault: Yellow Normal: Green
Test Button	Yes
Power	12-24VDC
Average Consumption	12VDC/100mA ,24VDC/50mA
Alarm Consumption	12VDC/100mA, 24VDC/50mA
Relay	NO for Fire Systems NC for Intruder Systems
Start Time	3 min.
Dimensions (mm)	Ø110 h:50
Body Material and Color	ABS Plastic – White
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IPX2D

(41,50mm)

(⌀109,60mm)

In cases where alarm LEDs are not visible due to installation of detectors on high ceilings, false ceilings, raised floor, restricted access rooms etc., this device is used as an additional indicator light. The big red LED in 10mm diameter can be seen even from high ceiling.

| Technical Specifications	TFA-3196
LED	RED
Light	RED 150mcd
Power	10-32VDC .
Alarm Consumption	2,2mA@24VDC
Weight	42gr
Dimensions (mm)	85 x 85 x 21mm
Body Material and Color	ABS Plastic – White
Operating Temperature	-10°C ~ +85°C
Humidity	95% RH
Protection Class	IP30
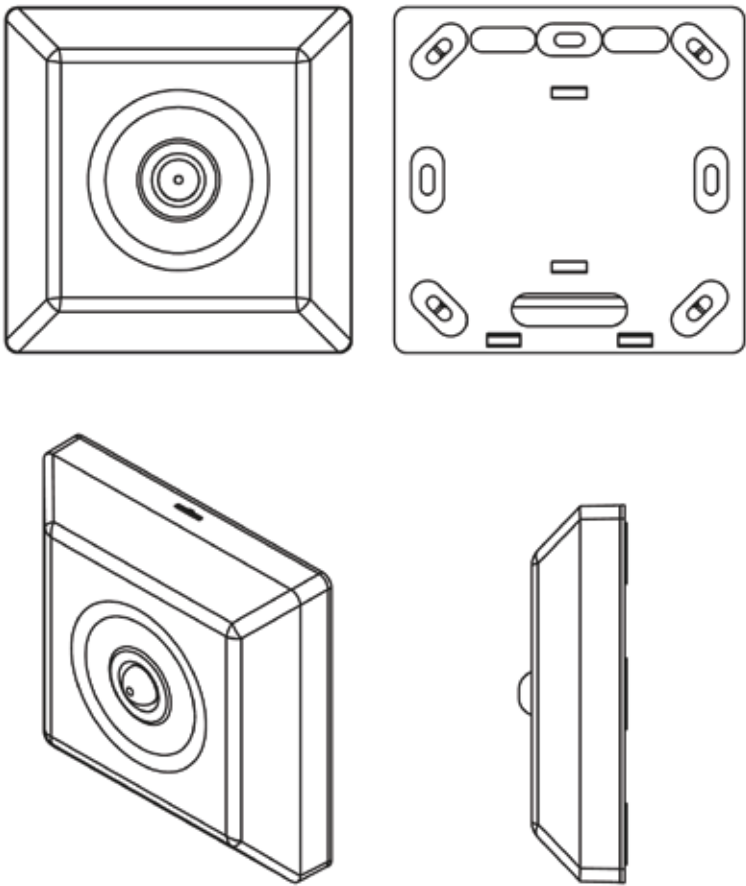
EN54-11

TFB-3165 is designed to be used with all brands of conventional fire alarm systems and comply with EN54-11. Internal 470-ohm resistance allow ease of installation.
It has resettable operation structure which can be reset by using a special plastic key. Suitable for flush and surface mounting. An optional transparent protection cover can be installed to avoid false alarms by accidental pressing.
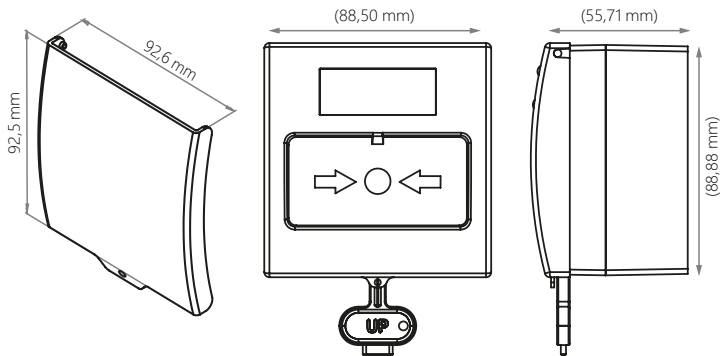
GENERAL FEATURES

- EN 54-11 Certified
- Resettable
- NC/NO Selection
- Includes 470 Ohm Resistance, does not Require Additional Connection
- Optional Transparent Protection Cover can be Installed. Cover can be Sealed
- Suitable for Flush and Surface Mounting
- Compatible with All Conventional Fire Alarm Systems r

Technical Specifications	TFB-3165
Standard	EN 54-11
Operating Type	A Type Manual
Resettable	Yes
Relay	NC/NO/470 Ohm
Power	5-32VDC
Dimensions (mm)	86 x 55 x 88 mm
Weight	165gr
Body Material and Color	RAL3001 RED
Type of Fragile Element	Resettable Polycarbonate
Operating Temperature	-10°C ~ 60°C
Humidity	≤93% RH at +40°C
Protection Class	IP30

TFA-0165
Transparent Protection Cover
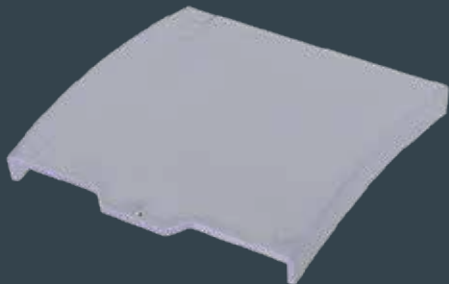
The cover is made of robust polycarbonate transparent material. It is used to prevent accidental button activation.

(88,50 mm)   (55,71 mm)

92,6 mm

92,5 mm

(88,88 mm)

UP

TFB-3165X
Conventional Emergency Call Points

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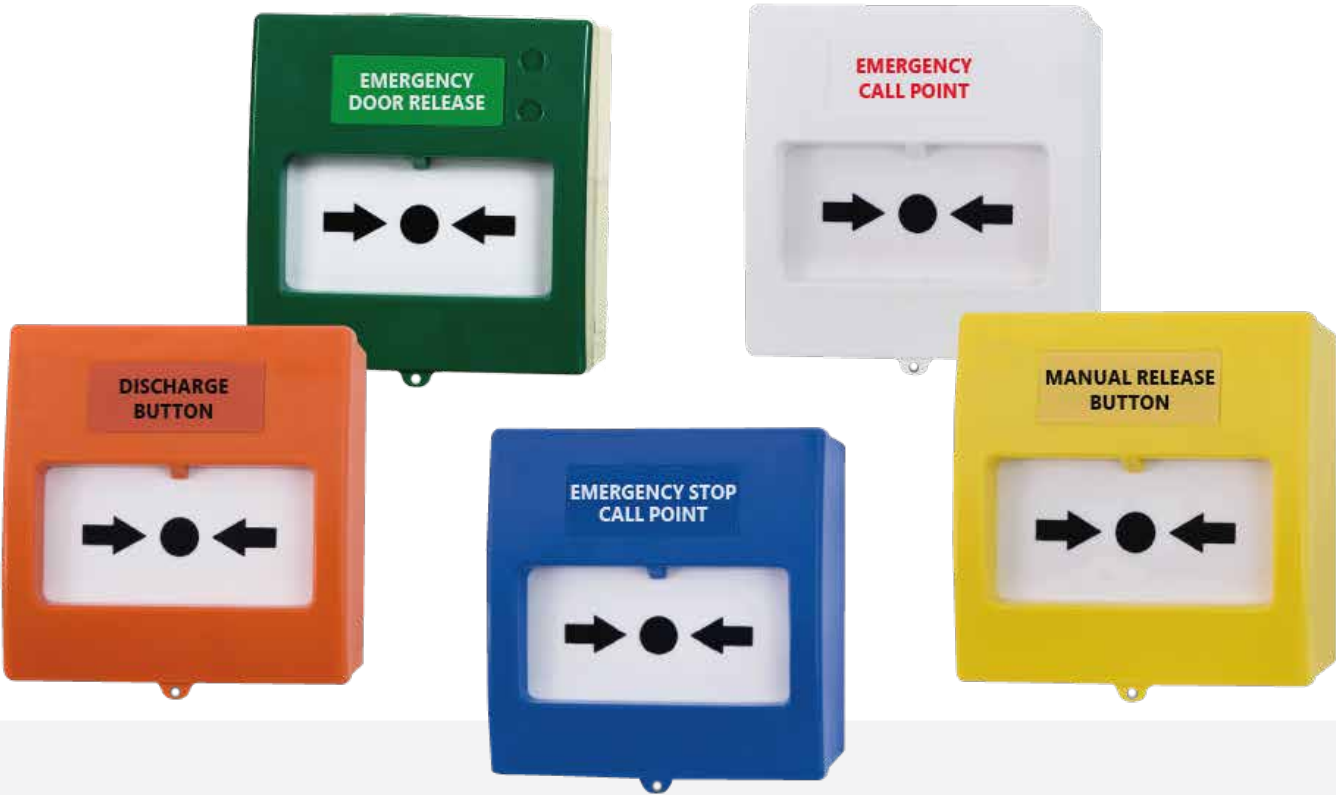
Designed to be connected to any brand of conventional fire detection systems. Internal 470-ohm resistance allow ease of installation. It is suitable for flush and surface mounting. An optional transparent protective cover can be installed. It is easily resettable via special key.

GENERAL FEATURES

- Resettable Type
- NC/NO Selection
- Includes 470 Ohm Resistance, does not Require Additional Connection
- Transparent Protection Cover can be Installed. Cover can be Sealed
- Suitable for Flush and Surface Mounting
- Compatible With all Conventional Fire and Theft Alarm Systems

- **TFB-3165W,** Emergency Call Point – WHITE
- **TFB-3165B**, Emergency Stop Call Point - BLUE
- **TFB-3165Y**, Manual Release Button – YELLOW
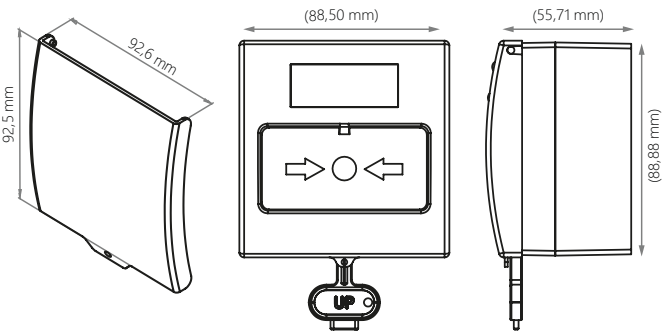- **TFB-3165G**, Emergency Exit Door Release Button – GREEN
- **TFB-3165O**,   - ORANGE

The cover is made of robust poly-carbon transparent material. It is used to prevent accidental button activation.

Technical Specifications	TFB-3165X
Operating Type	A Type Manual
Resettable	Yes
Relay	NC / NO / 470R
Power	5-30 VDC
Dimensions (mm)	165gr.
Weight	86x55x88mm
Color Codes	RAL 9010 White RAL 5002 BLUE RAL 1006 YELLOW RAL 6016 GREEN RAL2011 ORANGE
Type of Fragile Element	Resettable Polycarbonate
Operating Temperature	-10°C ~ 60°C
Humidity	≤93% RH at +40°C
Protection Class	IP30

92,5 mm   92,6 mm

(88,50 mm)   (55,71 mm)

(88,88 mm)

UP

TFS-3191
Conventional Fire Alarm Sounder

teknim®

EN54-3

Teknim TFS-3191 fire alarm sounder have aesthetic design and low power consumption and suitable for use with any brand of fire detection systems.

GENERAL FEATURES

• EN54-3 Certified
• Suitable for flush and surface mounting
• 100dB high sound level
• IP21C protection class
• Red/White, transparent UL94 non-flammable poly carbonate plastic frame

Technical Specifications	TFS-3191
Standard	EN-54/3
Sound Level	100dB±2 dB - (24VDC at 1 mt)
Sounder	Piezzo Element with leak-proof sealant
Power	24-28VDC
Alarm Consumption	15mA
Dimensions (mm)	Ø110, h:55 mm
Body Material	Red, UL94 anti- flammable ABS plastic
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP21C

TFS-3192R/W
Conventional Fire Alarm Sounder with Flasher

teknim ®

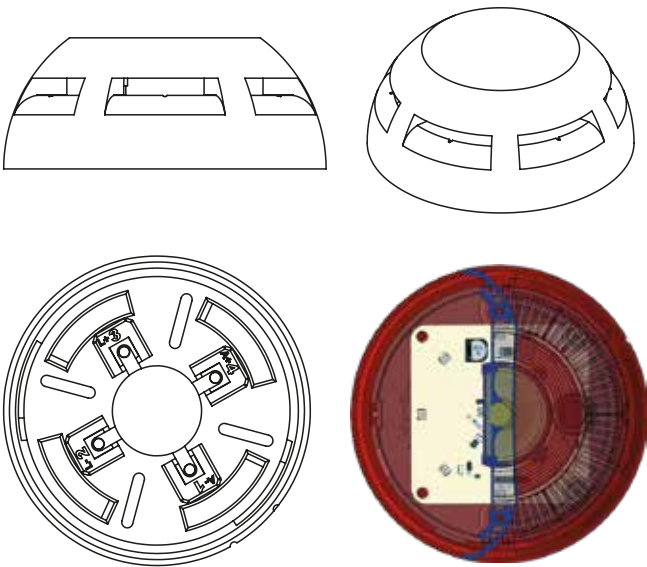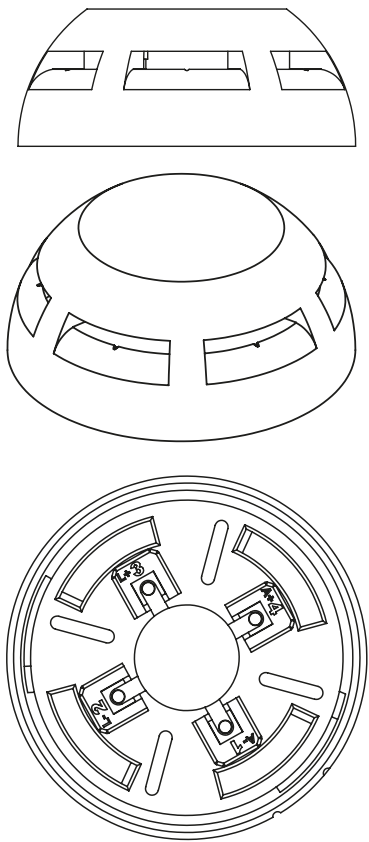EN54-3 EN54-23

Teknim TFS-3192 internal fire alarm sounder and flasher have aesthetic design and low power consumption and are suitable for use with any brand of fire detection systems.

GENERAL FEATURES

- EN 54-3 and EN 54-23 Certified
- Suitable for flush and surface mounting
- 100dB high sound level
- IP21C protection class
- Red/White, transparent UL94 non-flammable poly carbonate plastic frame

Technical Specifications	TFS-3192W/R
Standard	EN-54/3 EN-54/23
Operating Type	Sound + Flasher
Sound Level	100dB±2 dB, (24VDC at 1 mt)
Coverage	W-2,4-4
Flasher	1 sec ON / 1 sec OFF
LED	RED/WHITE
LED Specifications	Wide angle 7x Bright LED
Sounder	Piezzo Element with leak-proof sealant
Power	24-28 VDC
Alarm Consumption	19mA.
Dimensions (mm)	Ø110, h:55 mm
Body Material	ABS Plastic
Operating Temperature	-20°C ~ 55°C
Humidity	95% RH
Protection Class	IP21C

EN54-23

Teknim TFS-3193 internal fire alarm flasher has aesthetic design and low power consumption and are suitable for use with any brand of fire detection systems.

GENERAL FEATURES

- EN 54-23 Certified
- Suitable for flush and surface mounting
- IP21C protection class
- Red/White, transparent UL94 non-flammable poly carbonate plastic frame
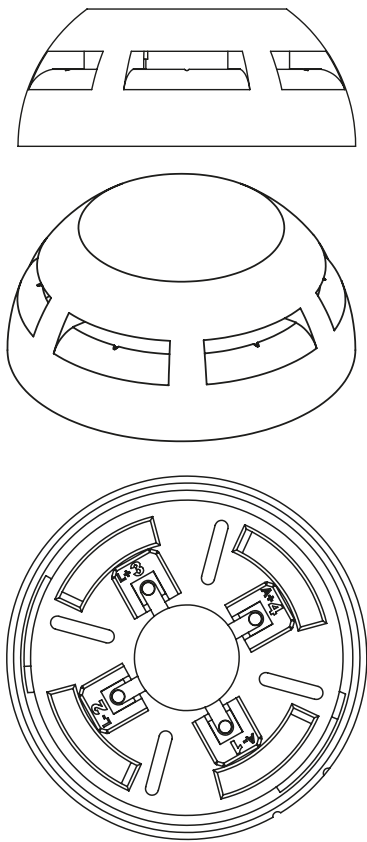
Technical Specifications	TFS-3193W/R
Standard	EN-54/23
Operating Type	LED
Coverage	W-2,4-4
Flasher	1 sec ON / 1 sec OFF
LED	RED/WHITE
LED Specifications	Wide angle 7x Bright LED
Power	24-28VDC
Alarm Consumption	6mA
Dimensions (mm)	Ø110, h:55 mm
Body Material	UL94 anti- flammable ABS Plastic
Operating Temperature	-20°C ~ 55°C
Humidity	95% RH
Protection Class	IP21C

TFS-5792
Conventional Outdoor Fire Alarm Sounder with Flasher

teknim®

TFS-5792 Sounder with flasher is a new designed for any brand of conventional fire detection systems, suitable for use in external environments.

GENERAL SPECIFICATIONS

- 6X Super Bright LED / Flasher
- 115dB/24V @1mt
- IP65 Protection

Technical Specifications	TFS-5792
Operating Type	Outdoor
Sound Level	115dB±3 dB (24VDC at 1 mt)
Sounder	Piezzo Element with leak-proof sealant
Power	24-28VDC
Alarm Consumption	285 mA ± %10 (@24VDC)
Dimensions (mm)	197 X 300 X 78 mm
Body Material and Color	UL 94 Polycarbonate - RED
Operating Temperature	-10°C ~ 65°C
Humidity	95% RH
Protection Class	IP65

TFD-3940
Standalone Multi Detector
with Battery Operated

TFD-3945
Standalone Cigarette and Heat
Detector with Battery Operated

teknim®

TFD-3940 and TFD-3945 are battery operated detectors which can be used stand-alone in to detect fire alarm. While TFD-3940 supports multi sensing technology with optical and heat, TFD-3945 supports cigarette smoke and heat sensing technology.

It has onboard Buzzer with 60dB sound level and provides 8 years battery lifetime with 2pcs CR123A battery. Detectors can be program easily by the button on it with different type of detection options.

GENERAL FEATURES

- Different Type of Detection Options
- 60dB Sound Level
- Supports 2x CR123A Battery
- Years Battery Lifetime with 2x Battery
- Test and Programming Button

Technical Specifications	TFD-3940/TFD-3945	
Operating Type	Optical and Heat	Cigarette and Heat
Average Consumption	25µA (@3V)	
Alarm Consumption	20mA	
Battery	2X CR123A	
Battery Lifetime	8 Years	
Detection Level	0.075dB/m	
Heat Detection	A2S – A2R	
Buzzer Sound Level	60dB@1m	
Dimensions (mm)	Ø110, h:48 mm	
Body Material and Color	ABS Plastic – White	
Operating Temperature	-10°C ~ 70°C	
Humidity	95% RH	
Protection Class	IP30	

TPU-8245
External Power Supply 24VDC 5Ah

EN54-4

TPU-8245 is designed to use in systems where required external power supply by providing 24VDC 5Ah uninterrupted power with an intelligent battery charger unit and complies with EN54-4. Both input and outputs of devices are protected against short circuit and overload. The device allows to use 7Ah or 12Ah battery options.

GENERAL FEATURES

• EN 54-4 Certified
• Selectable Single or Dual Output
• Supports 7Ah or 12Ah Backup Battery
• Dry Contact Relay Output for Error
• Led Indicators for Fault
• Intelligent Battery Charging with Temperature Compensation
• Wide Input Voltage Range, 110 to 240VAC
• Protection Against Short Circuit and Overload Conditions
• Fully Enclosed and Robust Metallic Case

Technical Specifications	TPU-8245
Standard	EN54-4
Smart Charge	Yes
Error Relay	Yes
Operating Voltage	110 / 240VAC
Operating Frequency	50 / 60 Hz
Output Voltage	20~24Vdc ±%2
Maximum Output Current	5Ah
Outputs (S1 Closed, S2 Open) (S1 Open, S2 Closed)	Output-1: 5,0Ah Output-2: 0,0Ah Output-1: 2,5Ah Output-2: 2,5Ah
Backup Battery	2X 12V, 7Ah
Charging Voltage	27,6V@ 20°C
Discharge cut-off	< 20V
Dimensions (mm)	310 x 102 x 300 mm
Body material and color	Metal RAL7305 Texture
Weight	3,25Kg (Without Battery)
Operating Temperature	-10°C ~ 55°C
Humidity	95% RH
Protection Class	IP30

TR6100 is a Beam detector used for fire detection particularly in large zones with high ceilings which are not suitable for standard detector mounting.

Internal Laser Pointer enables easy alignment of reflectors. It is very easy to install. It can be used with all fire detection panels

GENERAL FEATURES

• LPCB Approved
• Flawless Alignment by Digital Guiding Screen and Laser Beam Marking
• Internal Failure Diagnosis
• Automatic Compensation in Case of Weakened Signals
• Due to Dust Accumulation, Displacement and Worn Transmitter
• Fire and Error Relay Outputs
• Includes Reflector Mirror
• Internal Distance Adjustment

Technical Specifications	TR6100
Standard	LPCB, EN54-12, BS 5839 Part 1:2002
Operating Type	Beam Detector
Detection Distance	0-100 meters
Detection Angle	±0.5° direction
Digital Screen Guide	Nixie Tube
Alignment	Laser Beam Marker
Power	20-28VDC
Average Consumption	23mA
Alarm Consumption	33mA
Reset Time	Less than 2sec.
Relay Output	NC - NO 2.0A; 30VDC
Weight (Include Base / Not)	130gr
Dimensions (mm)	191 x 127 x 92 mm
Body Material and Color	ABS Plastic – White
Alarm Indicator LED	RED: Fire Alarm Yellow: Fault Green: Alignment
Operating Temperature	-10°C ~ 50°C
Humidity	95% RH
Protection Class	IP30

TXM-0508
GSM/GPRS Dialer

GSM/GPRS dialer is used to deliver alarm information from fire alarm panels to the users over GSM by voice call and SMS and can connect directly with the Alarm Receiving Centers to deliver alarm information via GPRS. It can also be used to remote start/stop of a product connected over PGM output via SMS. It can be used with all brand of fire alarm panels.

GENERAL FEATURES

- 15 Seconds Sound Recording
- GPRS Connection with ARC
- 2X Zone Inputs (Fire and Error)
- 1X PGM Output
- 8X Call and 8X SMS for Each Zone
- SMS Notification when Fault on ARC Connection or Fault on Control Panel Connection
- LEDs indicating Operation, Communication and Signal statuses

TXM Modules can be program via TXM Configuration software.

Technical Specifications	TXM-0508
Power	10-24VDC
Standby Consumption	120mA
Alarm Consumption	500mA
GSM Modem Frequency	850 / 900 / 1800 / 1900 Mhz
GPRS	Yes
Sound Recording Time	15sec
Communication Format	SIA-DC-09
Zone Inputs	2x NC/NO
Outputs (PGM)	1
Number of Users Call	8x Per Each Zone
Number of Users SMS	8x Per Each Zone
SMS Character	50
Dimensions (mm)	150 x 110 x 35 mm
Operating Temperature	-20°C ~ 55°C
Humidity	95% RH