HEAT & SMOKE DETECTORS – CONVENTIONAL
SENSOMAG DETECTORS

SENSOMAG FIXED TEMPERATURE DETECTORS

SensoMAG-HA2S and -HBS are fixed temperature detectors with digital processing algorithm. The HA2S is designed to detect temperatures above 60 °C (class A2S), and the HBS to detect temperatures above 75 °C (class BS), according to EN 54-5.

▪ Both are suitable for environments where sudden large temperature changes are considered as normal, rooms with high concentration of vaporous, exhaust gases, dust, etc., such as kitchens, garages, boiler rooms or other places where it is not convenient to install fire alarm optical smoke detectors.

SENSOMAG RATE-OF-RISE DETECTOR

SensoMAG-HA1R is a rate-of-rise temperature detector with digital processing algorithm. The detector is designed to detect temperatures above 58 °C (class A1R, according EN 54-5).

▪ SensoMAG-HA1R is suitable for applications for locations where different ambient temperatures occur (eg. mechanical workshops, tool rooms, etc.). The innovative design makes it particularly suitable anywhere where dust, dirt (eg. sawmills) or high humidity (eg. wet cells) could affect the operation of traditional detectors.

SENSOMAG OPTICAL SMOKE DETECTOR

SensoMAG-O is an optical smoke detector with digital processing algorithm. The detector is designed to detect smoke in the very early stage of the fire situation.

▪ SensoMAG-O is a high sensitive optical smoke detector. It is suitable-for applications where early detection of smoke or fire is with great importance, for example office buildings, supermarkets, schools, etc.

SENSOMAG MULTI-CRITERIA DETECTOR

SensoMAG-MS is a combined (optical smoke and rate-of-rise) detector with digital processing algorithm. The integrated automatic drift compensation reduced significantly the false alarms.
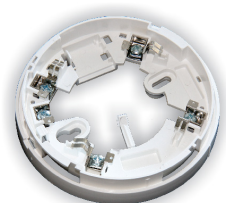
▪ SensoMAG-MS is a combined smoke and rate-of-rise temperature detector. It is the right choice for applications where the early detection of a fire situation is with great importance and high reliability is needed, eg. timbered construction, museums, and hotel rooms.

SENSOMAG STANDARD BASE

The SensoMAG-B is a standard base for the SensoMAG conventional detector series. The base features a low profile design and reliable contact system.

The detector can be locked to the base for extra security.

▪ Refer to Data Sheet *DS SensoMAG-B* for the base's Technical Specifications & Connection Digaram.

FEATURES

▪ EN 54 Approved
▪ 2 Year Warranty
▪ Twin LED
▪ Field-replaceable Elements
▪ Compatible with
  – ORYX Conventional Fire Panel range
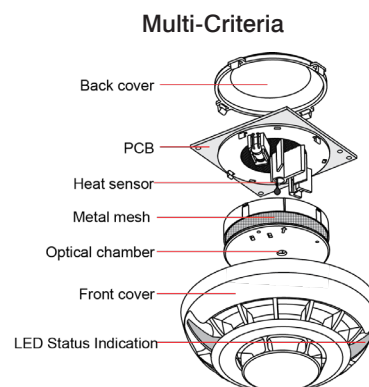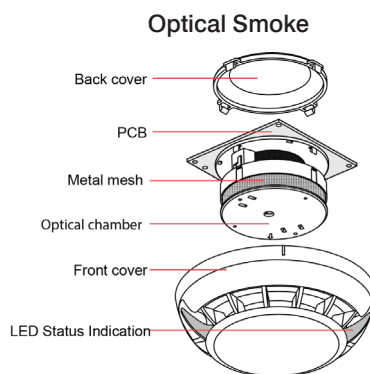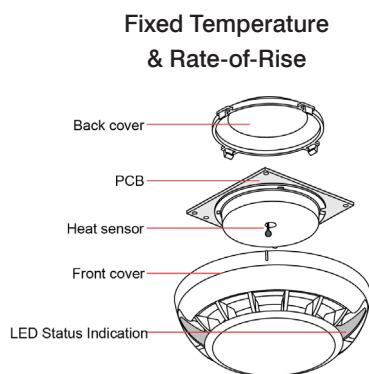 – TC800 and TC800 Plus Fire Panel ranges

TECHNICAL SPECIFICATIONS

	Fixed Temperature HA2S & HBS	Rate-of-Rise HA1R	Optical Smoke O	Multi-Criteria MS
Operating Voltage Range	9 - 30 V DC (Nominal 12 / 24 V DC)	9 - 30 V DC (Nominal 12 / 24 V DC)	9 - 30 V DC (Nominal 12 / 24 V DC)	9 - 30 V DC (Nominal 12 / 24 V DC)
Average Current Consumption in Quiescent State	< 50 μA	< 50 μA	< 50 μA	< 50 μA
Alarm State Current:				
– With base type B24 and B24D	20 mA / 12 30 V	20 mA / 12 30 V	20 mA / 12 30 V	20 mA / 12 30 V
– With base type B24RD	33 mA / 12 V 49 mA / 24 V 57 mA / 30 V	33 mA / 12 V 49 mA / 24 V 57 mA / 30 V	33 mA / 12 V 49 mA / 24 V 57 mA / 30 V	33 mA / 12 V 49 mA / 24 V 57 mA / 30 V
– With base type B12	18 mA / 9 V 29 mA / 12 V 32 mA / 15 V	18 mA / 9 V 29 mA / 12 V 32 mA / 15 V	18 mA / 9 V 29 mA / 12 V 32 mA / 15 V	18 mA / 9 V 29 mA / 12 V 32 mA / 15 V
Class as per EN 54-5	A2S (F10) & BS (F10B)	A1R		A1R
Protected Area as per EN 54-5	up to 35 m²	up to 35 m²	up to 120 m²	up to 120 m²
Installation Height as per EN 54-5	up to 3.5 m	up to 3.5 m	up to 16 m	up to 16 m
Output in alarm state at terminal RI	20 mA (max) / -3.3 V	20 mA (max) / -3.3 V	20 mA (max) / -3.3 V	20 mA (max) / -3.3 V
Degree of protection	IP30	IP30	IP30	IP30
Wire Gauge for terminals	0.4 mm² 2.0 mm²	0.4 mm² 2.0 mm²	0.4 mm² 2.0 mm²	0.4 mm² 2.0 mm²
Operational temperature range	-10 °C +60 °C	-10 °C +60 °C	-10 °C +60 °C	-10 °C +60 °C
Relative humidity resistance	(93 ± 3)% @ 40 °C	(93 ± 3)% @ 40 °C	(93 ± 3)% @ 40 °C	(93 ± 3)% @ 40 °C
Dimensions (incl. base)	ø 102 mm, h 42 mm	ø 102 mm, h 42 mm	ø 102 mm, h 42 mm	ø 102 mm, h 48 mm
Weight (incl. base)	160 g	160 g	160 g	170 g

Fixed Temperature
& Rate-of-Rise

Optical Smoke

Multi-Criteria

ORDERING INFORMATION

Product Code	Product Description
TE-SensoMAG-HA1R	SensoMAG ROR Heat Detector; Class A1/R (65 °C)
TE-SensoMAG-HA2S	SensoMAG Fixed Temperature Heat Detector; Class A2/S (70 °C)
TE-SensoMAG-HBS	SensoMAG Fixed Temperature Heat Detector; Class B/S (85 °C)
TE-SensoMAG-MS	SensoMAG Multi-criteria Detector; Class A1/R
TE-SensoMAG-O	SensoMAG Optical Smoke Detector
TE-SensoMAG-B	SensoMAG Standard Base
TE-SensoMAG-RB12V	SensoMAG Base with Relay Output, 12V
TE-SensoMAG-LED	SensoMAG Remote Fire LED