

# NITTAN

# Sensortec Product Range



World Leading  
Fire Detection Products  
from the **NITTAN** group



sensortec  
Issue 2

# Business Overview

The Nittan Group has been at the forefront of the fire protection industry since 1954 and has sales, R&D and manufacturing bases in Japan, China, Sweden and the UK.

Nittan (UK) Ltd was established in 1972 and has grown to become a major player in the fire protection industry. With the extensive support facilities of our Tokyo parent company, Nittan (UK) now supplies in excess of 500,000 detectors per year, all of which are made to marine standard for exceptional quality.

Our latest breed of sophisticated Sensortec and Evolution analogue addressable and conventional fire detectors and ancillary products are sold worldwide.

Analogue Addressable



## ST-PY-AS Optical Detector

Part No. F14C82100

**NEW**

<b>Sensor Type</b>	Latest Generation Nittan Optical Chamber
<b>Alarm Voltage</b>	Low Quiescent Current - 500µA
<b>Operating Current</b>	Alarm Current (LED on) 5.2mA
<b>Standard</b>	Approved to EN54-7:2000
<b>Alarm Indication</b>	Omniview LED Indicator



- Ionisation Detector
- 33.3 kBq Am241 source
- Robust Fully Modulated AS Communications Protocol
- DIL Switch addressed

## ST-I-AS Ionisation Detector

Part No. F13N81000

<b>Sensor Type</b>	Analogue Ionisation Detector
<b>Alarm Voltage</b>	Low Quiescent Current - 200µA
<b>Operating Current</b>	Alarm Current (LED on) 2mA
<b>Standard</b>	EN54-7:2000 Approved
<b>Alarm Indication</b>	Red LED



- Forward Scatter Optical detector
- Robust Fully Modulated AS Communications Protocol
- DIL Switch addressed

## ST-P-AS Optical Detector

Part No. F14N81100

<b>Sensor Type</b>	Analogue Optical Detector
<b>Alarm Voltage</b>	Low Quiescent Current - 200µA
<b>Operating Current</b>	Alarm Current (LED on) 2mA
<b>Standard</b>	EN54-7:2000 Approved
<b>Alarm Indication</b>	Red LED

# Analogue Products



- Thermistor Heat Sensor
- Robust Fully Modulated AS Communications Protocol
- DIL Switch addressed

## ST-H-AS Heat Detector

Part No. F15N81200

Sensor Type	Analogue Heat Detector
Alarm Voltage	Low Quiescent Current - 200µA
Operating Current	Alarm Current (LED on) 2mA
Standard	EN54-5:2000 Approved
Alarm Indication	Red LED

Detection products electrically and mechanically compatible to products over 20 years old



- STI IP24 housing MCP
- DIL Switch Addressed
- Robust Fully Modulated AS Communications Protocol
- Available in other Colours

## AS-MCP Manual Call Point

Part No. F16N82303

Product Type	Analogue MCP (IP24)
Alarm Voltage	Low Quiescent Current - 200µA
Operating Current	Alarm Current (LED on) - 2mA
Alarm Indication	Red LED

Coming Soon



- STI waterproof IP67 housing MCP
- DIL Switch Addressed
- Robust Fully Modulated AS Communications Protocol

## AS-MCP-WP Waterproof Manual Call Point

Part No. F16N82305

Product Type	Analogue MCP (IP67)
Alarm Voltage	Low Quiescent Current - 200µA
Operating Current	Alarm Current (LED on) - 2mA
Alarm Indication	Red LED

Coming Soon



- Wall or Base mounted sounder
- DIL Switch Addressed
- Robust Fully Modulated AS Communications Protocol

## AS-ABS Base Sounder

Part No. F16C81563

Requires **UB4-EV-AB Base** Part No. F03C83020  
or **Red Cover** Part No. F06N82411

Product Type	Analogue Sounder
Alarm Voltage	Low Quiescent Current - 200µA
Operating Current	Alarm Current (active) 7-10mA (Tone dependant)
Alarm Indication	None
	16 Alarm Tones + 1 Alert Tone

# Analogue Products

Detection products electrically and mechanically compatible to products over 20 years old



- 1 Conventional Detector or switch zone with wiring monitored
- 1 C/O volt-free contact output (support being CIE dependant)
- DIL Switch Addressed
- Robust Steel Housing

## MCM-AS4 Monitoring / Control Module

Part No. F16N85120

Product Type	Analogue ZMU
Operating Current	(From Loop) Iq 6.2mA Ia max. 20mA



- 1 zone of conventional sounders
- Monitors External PSU
- Multiple tones (Alarm and Alert)
- DIL Switch Addressed
- Robust Steel Housing

## SCM-AS4 Sounder Control Module

Part No. F16N85125

Product Type	Analogue Sounder Controller
Operating Current	(From Loop) Iq 4.2mA Ia 500µA



- 1 C/O Volt-free contact Output
- DIL Switch Addressed
- Robust Steel Housing

## OCM-AS3 Output Module

Part No. F16N85115

Product Type	Analogue O/P
Operating Current	(From Loop) Iq 350µA Ia 500µA



- 1 N/O contact Input – does not monitor contact wiring
- DIL Switch Addressed
- Robust Steel Housing

## NAM-AS3 Input Monitor Module

Part No. F16N85110

Product Type	Analogue I/P
Operating Current	(From Loop) Iq 270µA Ia 4mA



- Base mounted "Dumb" Isolator

## SCI-5 S/C Isolator (Base)

Part No. F16N81441

Product Type	S/C Isolator
Operating Current	Iq 300mA I Operated 15mA
Operation Indication	Yellow LED



- Single Gang box mounted "Dumb" Isolator

## SCI-6 S/C Isolator (Boxed)

Part No. F16N81440

Part No. F16N81442 with backbox

Product Type	S/C Isolator
Operating Current	Iq 300mA I Operated 15mA
Operation Indication	Yellow LED

# Conventional Products



Detection products electrically and mechanically compatible to products over 20 years old



- Optical Smoke Detector
- Omniview 360° LED
- S/C Alarm characteristic
- Wide operational voltage range (12v – 32v)

## ST-P-OM

Optical Detector (Replaces ST-P)

Part No. F02C82220

Sensor Type	Optical Smoke Detector
Alarm Voltage	Low Quiescent Current - 50µA
Operating Current	Alarm Current 65mA @ 24v (externally limited)
Standard	EN54-7:2000 Approved
Alarm Indication	Omniview LED Indicator



- Ionisation Detector
- S/C Alarm characteristic
- 33.3kBq Am241 source

## ST-I

Ionisation Detector

Part No. F01N80000

Sensor Type	Ionisation Detector
Alarm Voltage	Low Quiescent Current - 50µA
Operating Current	Alarm Current 65mA @ 24v (externally limited)
Standard	EN54-7:2000 Approved
Alarm Indication	Red LED



- Thermistor Heat Detector
- S/C Alarm characteristic

## NHD-G1 Thermistor Heat Detector (Grade 1)

Part No. F04N60045

## NHD-G2 Thermistor Heat Detector (Grade 2)

Part No. F04N60046

## NHD-GH1 Thermistor Heat Detector (High Temp)

Part No. F04N60048

Sensor Type	Thermistor Heat Detector
Alarm Voltage	Low Quiescent Current - 50µA
Operating Current	Alarm Current 65mA @ 24v (externally limited)
Standard	EN54-5:2000 Approved
Alarm Indication	Red LED Indicator



- 62°C and 92°C Heat Detectors
- Omniview 360° LED
- S/C Alarm characteristic
- Wide Operational Voltage Range (11v-32v)

## ST-H-OM-A2S Heat Detector

Part No. F04N60066

## ST-H-OM-CS Heat Detector

Part No. F04N60067

Operating Voltage	11v-32v
Operating Current	Quiescent: 50µA Alarm: 50mA
Standard	EN54-5:2000 + A1:2002
Alarm Indication	Omniview 360° LED

**NEW**



- Intrinsically Safe Ionisation Detector
- 33.3kBq Am241 source

## ST-I-IS

Intrinsic Safe Ionisation Detector

Part No. F01N80020

Sensor Type	Ionisation Detector
Alarm Voltage	Low Quiescent Current - 50µA
Operating Current	Alarm Current <50mA @ 24v (externally limited by IS barrier)
Standard	EN54-7:2000 and ATEX Approved
Alarm Indication	Red LED Indicator



- UV Flame detector
- S/C Alarm characteristic

## NFD-68-P

UV Flame Detector

Part No. F04J60043

Sensor Type	UV Flame detector
Alarm Voltage	Low Quiescent Current - 120µA
Operating Current	Alarm Current 65mA @ 24v (externally limited)
Alarm Indication	Red LED Indicator

# Conventional Products



- KAC world series housing
- Conventional Call Point
- C/O contact, 470Ω Alarm resistor

## NCPK-470 Manual Call Point

Part No. F06N61018

Product Type  
Operating Current  
Alarm Indication

Conventional MCP (IP24)  
Alarm Current (LED on) - 50mA at 24V  
Red LED Indicator



- Savewire Base for ST detectors

## STB-4SE-SAV Savewire Base

Part No. F03N82401

Sensor Type

Savewire Base for ST detectors



- KAC world series waterproof housing MCP
- DIL Switch Addressed
- C/O contact, 470Ω Alarm resistor

## NCPK-WP Manual Call Point

Part No. F06N61009

Sensor Type  
Alarm Voltage  
Operating Current

Conventional MCP (IP65)  
Low Quiescent Current - 200µA  
Alarm Current (LED on) - 50mA at 24V



- |   |   |
|---|---|
| <p><b>STB4-SE-24VR</b></p> <ul style="list-style-type: none"> <li>• Deep Base</li> <li>• 24v operation PCB mounted Relay</li> <li>• Volt free C/O contacts</li> </ul> | <p><b>STB4-SE-12VR</b></p> <ul style="list-style-type: none"> <li>• Deep Base</li> <li>• 12v operation PCB mounted Relay</li> <li>• Volt free C/O contacts</li> </ul> |
|---|---|

## STB4-SE-12VR Relay Base

Part No. F03J82320

## STB4-SE-24VR Relay Base

Part No. F03J82330

Product Type  
Operation Voltage

Relay Base  
12/24V



- |   |   |
|---|---|
| <p><b>STB4-SE-24VRL</b></p> <ul style="list-style-type: none"> <li>• Deep Base</li> <li>• 24v operation PCB mounted Relay</li> <li>• Latching Relay, Normally energised, Fail-safe operation</li> <li>• Volt free C/O contacts</li> </ul> | <p><b>STB4-SE-12VRL</b></p> <ul style="list-style-type: none"> <li>• Deep Base</li> <li>• 12v operation PCB mounted Relay</li> <li>• Latching Relay, Normally energised, Fail-safe operation</li> <li>• Volt free C/O contacts</li> </ul> |
|---|---|

## STB4-SE-12VRL Latching Relay Base

Part No. F03J2325

## STB4-SE-24VRL Latching Relay Base

Part No. F03J2326

Product Type  
Operation Voltage

Latching Relay Base  
12/24V

# contact

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