

Evolution Conventional and Savwire Fire System



optimum fire safety systems solutions



- Omniview 360° Alarm Indicator
- Modern, sleek design
- Built to exceptional marine standards
- Award-winning Dual Optical technology

NITTAN

Issue 2



Evolution Conventional

Designed and engineered to Marine standards - the highest available - Nittan's Conventional range combines extremely reliable fire detection with exceptional protection against unwanted false alarms.

A highly cost-effective range, Evolution Conventional benefits from a bright 'Omniview' 360° Alarm Indicator on all sensors allowing users to see the sensor's operation from any angle, plus patented, award winning Dual Optical technology incorporated into key detectors.

All Evolution products come with either LPCB, VdS, DBI EN54 or INTERTEK Approvals for total peace of mind.

- Built to exceptional marine standards for reliability and long life
- Unique, award-winning Dual Optical technology
- 'Omniview' 360° Alarm Indicator
- Modern, sleek design
- Full range of devices

Evolution Conventional Smoke & Heat Detectors



A range of Optical, Heat, Dual Optical and IR Flame Detectors featuring Nittan's latest sophisticated technology for exceptional reliability and performance.

EVC-DP Dual Optical Detector



Using the scattered light principle inherent in optical detectors, the EVC-DP Dual Optical Detector goes one step further and uses both IR and blue LEDs to

provide a more accurate measurement of particles within the chamber. By calculating the ratio of these light sources, which operate at different wavelengths, the EVC-DP can determine the particle size and thus distinguish between smoke and non-combustion products such as steam and dust. This patented, award winning technology is unique to Nittan and provides an excellent solution to false alarms in areas prone to steam and dust, including hotels, hospitals and other areas of multiple occupancy.

EVC-P Optical Detector



Using a simple but effective technique, the EVC-P Optical Detector incorporates a chamber housing an Infra Red (IR) LED light and a photodiode light detector set at an obtuse angle preventing it from seeing the light. When

smoke enters the chamber the light bounces off the smoke particles and strikes the photodiode, causing it to generate an alarm condition when a set threshold value is met. The EVC-P Optical Detector is therefore more sensitive to larger smoke particles which tend to be caused by smoldering fires rather than fast flaming fires.

EVC-H-A2S & EVC-H-CS Heat Detector



Unlike smoke detectors that detect the presence of smoke particles, heat detectors only react to changes in temperature. The EVC-H-A2S & EVC-H-CS are Thermistor based Heat Detectors,

which use electronic components that change their resistance when heated; this change is detected by circuitry within the detector.

EVC-IR Dual Band IR Flame Detector



The EVC-IR uses both Dual Wavelength and flicker frequency sensing techniques for maximum false alarm reduction and sensitivity to real flaming fires.

EVC-ASD & EVC-LASD Aspirating Smoke Detectors



Professional air-sampling units, designed to compliment conventional and analogue addressable system technology, by combining standard field-serviceable smoke detectors with a stand-alone air-sampling solution. The EVC-ASD is ideal for the protection of difficult to access, environmentally demanding, aesthetic or architecturally restricted areas, whereas the EVC-LASD is for risks requiring class A, B or C design sensitivity. Both are rugged, easy to install, weatherproof, and require no special tools or software to configure. The units are supplied with detector bases.

EVC-Firebeam+ Beam Detector



EVC-Firebeam+ provides a reliable, cost effective solution for protecting large areas. Building movement and accessibility have, in the past, made beam detection unreliable, difficult and time consuming to commission as well as hard to maintain, but Firebeam overcomes these issues through its advanced motorised technology. The beam aligns itself to the centre of the reflector when commissioning and will automatically re-align itself when building movement occurs. Accessory kits allows ranges of 5 -100m.

Xtralis Products



VESDA by Xtralis ASD solutions with continuous air sampling provide the earliest possible warning of an impending fire hazard. VESDA detectors come with multi-level warnings and a wide range of sensitivity that does not degrade or change over time, so even minute levels of smoke can be detected before a fire has time to escalate. As a result, they are ideally suited to challenging environments such as utilities, oil & gas, etc, as well as situations where business continuity is imperative.

Industrial Products OKB-3 Compact Smoke Detector



Compact, Industrial smoke detector suitable for use in transport containers, computer racking systems, aircraft etc. UL (ETL) approved.

CPC-3 Control Unit



Control unit for use with OKB-3 smoke detector.

Evolution Conventional & Sawwire Bases



- UB-4SD Detector Mounting Base with Schottky Diode
- STB-4SE-SW-EV Sawwire Base
- STB-4SE-SD Deep Base with Schottky Diode
- UB-4 Detector Mounting Base
- STB-4SE Deep Detector Mounting Base

Evolution Conventional Audio Visual Alarm Devices

Nittan's range of Disability Discrimination Act (DDA) compliant Loop Powered audio visual devices have been designed for quick installation and, using Nittan's new LED technology, are highly efficient.

Banshee Base



Excel Base Sounder with cover.

Alarm Bell 150mm (6")



150mm (6") 24Vdc EN54-3

Alarm Bell 200mm (8")



24Vdc W/P EN54-3

StroBell Combination



Alarm Bell /Strobe

Banshee EXCEL Sounder



Sounder Capsule Red

EXCEL LITE Xenon Red Sounder



Sounder/Strobe D/B

Banshee EXCEL Sounder



Sounder Capsule Red D/B

Strobe Light



24Vdc Red

EXCEL LITE Xenon Red Sounder



Sounder/Strobe

Evolution Conventional & Savwire Manual Call Points



Evolution Manual Call Points are available in a choice of STI 'Reset' IP24 (RP-RS-01 Surface Mounting; RP-RF-01 Flush Mounting) or IP67 housing (WRP-R-01 Waterproof). Also available is the RP-RS-05 Savwire MCP.

Intrinsically Safe Equipment



Intrinsically Safe equipment operates at such low power and with such small amounts of stored energy that it is incapable of causing ignition in normal conditions or where there are faults in combination.

KFD0-CS-EX1.51 Galvanic Isolator



Single channel fire and smoke detectors IS isolator

EVC-PY-IS Intrinsically Safe Optical Detector



Using the latest generation of Nittan smoke sensing chambers, with enhanced sensitivity to Black smoke, combined with ATEX approval the EVC-PY-IS is suitable for use in Intrinsically Safe environments.

ENC-90-PC Enclosure



For galvanic isolator

UB4-IS Mounting Base



WCP-1 Intrinsically Safe Call Point



Intrinsically safe call point

Beacon



FlashDome IS (ATEX) Red 24Vdc

Sounder



IS28 Banshee MTMK5100dBA, ATEX, IECEx (Group II)

Evolution Conventional Accessories

A wide range of accessories are available for use with the Evolution Conventional range from Nittan, including equipment fittings such as mounting plates and boxes through to specialist duct housing.



IP55 Base and Mounting Box



Adjustable Mounting Box
(for Flame Detector)



Back Box (for STI MCP)



Magnetic Door Holders



Power Supplies



STA-R1 Remote Indicator



UG-3 Duct Detector Housing



3 Way Terminal Tray (for EV Module)



Hinged Clear Cover (for STI MCP)



Flush Wall Mounting Plate (for STI MCP)



Linear Heat Systems

Evolution Conventional Specification Summary

Description	Part Number	Operating Current	Standard	Alarm Indication
Smoke Detectors				
EVC-DP	F02-82215	Quiescent: 50 μ A / lalarm: 50mA	EN54-7:2000 + A1:2002	Omniview 360° LED
EVC-P	F02-82200	Quiescent: 50 μ A / lalarm: 50mA	EN54-7:2000 + A1:2002	Omniview 360° LED
EVC-H-A2S	F04-82505	Quiescent: 50 μ A / lalarm: 50mA	EN54-5:2000 + A1:2002	Omniview 360° LED
EVC-H-CS	F04-82505	Quiescent: 50 μ A / lalarm: 50mA	EN54-5:2000 + A1:2002	Omniview 360° LED
EVC-IR	F04J60044	Quiescent: 100 μ A / lalarm: 50mA	EN54-10:2001 + A1:2005	Omniview 360° LED
EVC-ASD 1	F05-83237		EN54-20	
EVC-ASD 2	F05-83238		EN54-20	
EVC-LASD 1	F05-83239		EN54-20	
EVC-LASD 2	F05-83290		EN54-20	
EVC-Firebeam+	F05-83260		EN54-20	
Industrial Products				
OKB-3	F09-66010		ETL (UL STD 61010-1)	
CPC-3 Control Unit	F03-82401	AC 100v - 240v	ETL (UL STD 61010-1)	
Bases				
UB-4SD	F03-83510			
STB-4SE-SW-EV	F03-84010			
STB-4SE-SD	F02-82302			
UB-4	F03-83500			
STB-4SE	F03-82300			
Audio Visual Alarm Devices				
Banshee Base	F06-82500			
Alarm Bell 150mm (6")	F06-61023	24Vdc EN54-3		
Alarm Bell 200mm (8")	F06-61024	24Vdc W/P EN54-3		
StroBell Combination	F06-61200			
Banshee EXCEL Sounder	F06-82520			
Banshee EXCEL Sounder	F06-82525	IP66		
EXCEL LITE Xenon Red Sounder	F06-82510			
EXCEL LITE Xenon Red Sounder	F06-82515	IP66		
Strobe Light	F06-82550	24Vdc		
Manual Call Point				
RP-RS-01	F06-62018	lalarm: 50mA @24v	EN54-11:2001 + A1:2005	None
RP-RF-01	F06-62019	lalarm: 50mA @24v	EN54-11:2001 + A1:2005	None
WRP-R-01	F06-62009	lalarm: 50mA @24v	EN54-11:2001 + A1:2005	None
RP-RS-05 - (Savwire MCP)	F06-62050	lalarm: 50mA @24v	EN54-11:2001 + A1:2005	None
Intrinsically Safe Equipment				
EVC-PY-IS	F02-83300	Alarm Current <50mA @ 24v (externally limited by IS barrier)	EN54-7:2000 and Atex Approved	Omniview 360° LED
UB4-IS Mounting Base	F03-83022			
KFD0-CS-EX1.51P	F05-83220			
EC0-90-PC	F05-83221			
WCP-3	F06-61011			
Beacon	F06-82540	Red 24Vdc		
Sounder	F06-82530	100dBA		