



G008710

IS optical smoke/heat detector

Salwico NS-AOHS-IS

Part no. N11250

System: * CS3000, CS4000, NSAC-1, Salwico Cargo, Salwico Cruise, Salwico LNG, Salwico Offshore, Salwico Ro/Pax, Salwico Workboat, Salwico Yacht, Salwico Navy, OEM Extinguish

General Description

NS-AOHS-IS is an intrinsically safe analogue addressable multi sensor detector for Salwico fire alarm systems.

It uses a combination of two separate analogue sensor elements. One optical-smoke-sensor and one thermistor-heat-sensor. A SMOKEHEAT alarm is activated, regardless of which sensor being triggered. However, it's possible for the user to temporarily disable the smoke or heat sensor individually.

Alarm condition is indicated on the detector via a red LED. The LED is lit until the alarm has been reset on the control panel.

The address is set with a DIP switch, which is mounted on the backside of the detector.

NS-AOHS-IS is connected to the detector loop via an intrinsically safe isolator.

It is not possible to connect any remote LED indicator to NS-AOHS-IS.



CAUTION!

Certified product

No modifications permitted without reference to notified body.

Safety data

Max input voltage (U_i)	28 VDC
Max input current (I_i)	93.3 mA
Max input power (P_i)	0.66 W
Max internal capacitance (C_i)	1 nF
Max internal inductance (L_i)	Negligible
Responsible manufacturer	Consilium Marine & Safety AB, www.consilium.se

Only clean outside of detector by using a damp cloth.

Data

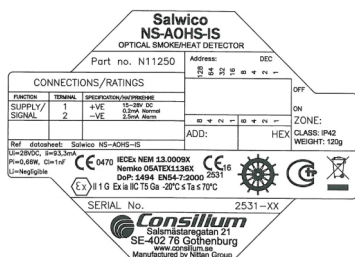
Smoke sensing method	Light scattering type IR (infra-red)
Working voltage	15 - 28 VDC
Working current	0.2 mA
Alarm current	2.5 mA
Temperature class	CS (84 °C)
Temperature range	-25 °C to +70 °C
Ambient humidity	0-95% RH, non-condensing
Colour	White
Weight	100 g ± 5% (head only) 365 g ± 5% complete with adapter IP-ADAPT and base IP-BASE

It is important only to use base adapter IP-ADAPT part. no. 5100775 together with a suitable base. For information about suitable bases, see separate document "Base matrix Salwico units".

* SPK-2 for NOSE based detectors.

Certifications

MED



G023510

Certificate No:
2531-MED-CMC10040
Certificate according to:
EN54-5:2000 + A1:2002
EN54-7:2000 + A1:2002
and A2:2006
IEC 60092-504: 2016, IEC
60533:2015



2531/yyyy
yyyy = year of production

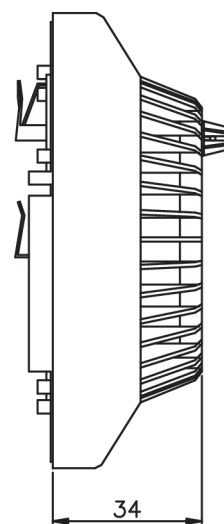
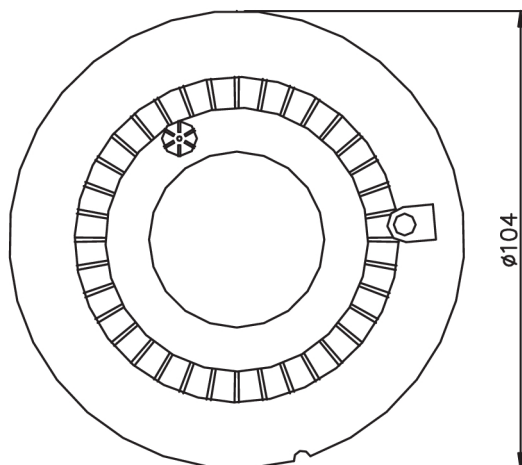
ATEX Ex ia

Certificate No:
05ATEX1136X
Certified according to:
EN 60079-0:2018
EN 60079-11:2012
EN 60079-26:2007
 II 1G

IECEx ia

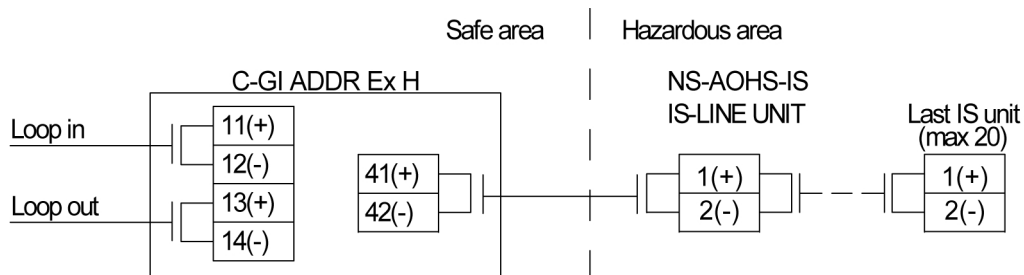
Certificate No:
IECEx NEM 13.0009X
Certified according to:
IEC 60079-0:2017
IEC 60079-11:2011
IEC 60079-26:2006
Ex ia IIC T5 Ga
-20°C ≤ Ta ≤ 70°C

Dimensions (mm)

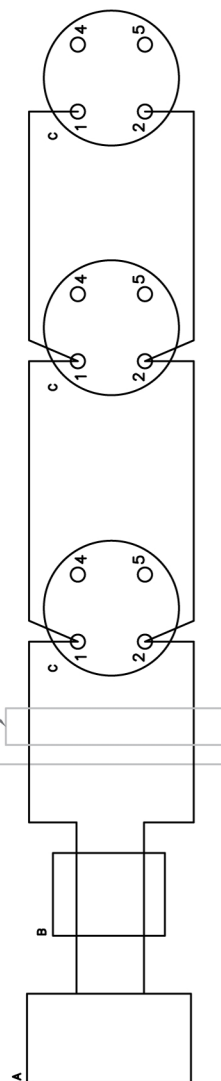


G008706

Connection



G023573

NITIANSAFE AREAHAZARDOUS AREA

A. Apparatus which is unspecified except that it must not be exposed to an external source of potential with respect to earth in excess of 250 volts r.m.s. or 250 volts d.c.

B. Use single channel isolated safety barrier certified by an EEC Approved Certification Body to (Ex a) IIC having the following or lower output parameters.

Isolator:

$U_o = 28V$
 $I_o = 93.3mA$
 $P_o = 0.68W$

Detector:

$U_i = 28V$
 $P_i = 0.68W$
 $I_i = 93.3mA$
 $U = negligible$
 $C_i = 1nF$

C. Up to 20 Type NS-AOHS-IS Series Optical Smoke Detectors and Type STB-4IS2, IP-ADAPT or NS-ADAPT-IS2 Bases. (Certificate Number Nemko 05ATEX1136X).

D. Terminals are fitted to positions 4 and 5. These terminals have no electrical connection and are for mechanical fixing purposes only.

E. The installation must comply with the European Harmonised Standard, EN 60078: Part 14: 2013.

F. The capacitance and inductance or resistance (L/R) ratio of the hazardous area cable must not exceed the values shown in Table 1 below:

GROUP	CAPACITANCE in μF	INDUCTANCE in mH	OR L/R RATIO in $\mu H/\Omega$
IIC	0.08	4.3	55
IIB	0.85	17	199
IIA	2.15	35	431

G. A durable label, as shown below, to be affixed at the interface of the IS and non IS circuits.

Specific marking for equipment to be used in explosive atmospheres
 Type of Protection: Ex ic IIC II
 (Temp = 70°C)
 (Amb = 70°C)
 Temperature Class: T4
 GAS Group & Sub Group: IIC
 Explosion proof in accordance with ATEX

SCHEDULE DRAWING.
 NO MODIFICATIONS PERMITTED WITHOUT
 REFERENCE TO THE NOTIFIED BODY.

Issue 2 Updated Sections B, F, G & I

H. The electrical circuit in the Hazardous area must be capable of withstanding an A.C. test voltage of 500V r.m.s. to earth or frame of the apparatus, for 1 minute.
 I. WARNING: Possible Electrostatic Discharge Risk. Do NOT Clean with Solvents. Do NOT charge by Rubbing. Clean ONLY with a Damp Cloth.

SERIAL SPEC C143 L43 E27	DRAWING. <i>K Williams</i> APPROVD. <i>[Signature]</i> FILE REF: 073084	TOLERANCES UNLESS OTHERWISE STATED DECIMALS ± 0.1 ANGLES $\pm 0.5^\circ$	SCALE 2:1 	PART No.	CURRENT ISSUE		4	DATE	ISSUE	D.C.N.
					DRG. NO. 073084	SHEET 1 OF 1	REMOVE ALL BURRS DIMMS IN MM			
					TITLE NSx-AOHS-IS SERIES SYSTEM CONNECTION DIAGRAM					
12/05/21							4			210501
22/02/21							3			210202
12/08/13							2			130102
							1			N/A

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