

G013968

Alarm Sounder

CD-S


Part no. 5100626-00B

System: All Salwico addressable fire alarm systems

General Description

The CD-S module is a Type A fire alarm sounder suitable for use with a wide range of addressable detectors, see suitable detectors list, and as a spare part for the SUM-2 Buzzer; see the [CD-S as a Replacement Unit](#) section below.

Data

Power supply	16 - 38 VDC
Operating current	0.1 mA
Alarm current	3.5 - 3.8 mA
Frequency Range	800 - 2400 Hz Depends on the selected tone
Sound output	80-85 dB(A) at 1 m Depends on the selected tone SPL data ± 3 dB(A)
Operating temperature	-25 °C to +70 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	≤ 95 % RH non-condensing
Ingress protection	IP22
Material	FR Polyamide
Fire behavior of materials	HLR3, I2/F2 and NFPA 130
Colour	RAL 9003 White
Weight	0.027 kg
Conformity	EN 54-3:2014  RoHS 2 ENV2

Certificates



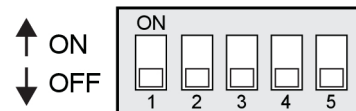
2531/yyyy
yyyy = year of production

Accessories

5101509-00A	CD-B Detector base
5101510-00A	CD-B SCI Detector base
044445	UB-6 Detector base
5200313-00A	UB-6 SCI Detector base
5100449-00A	UB-6 PA66 Detector base

Function Selection

A DIP-switch is used to select detector type and tone type.



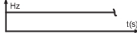


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- Use settings 4-5 for configuration of detector type according to section [Detector Type Selection](#).
- Use settings 1-3 for tone selection according to section [Tone Selection](#)

Detector Type Selection

Type	Addressable detectors	Settings DIP 4-5	
		4	5
Type 1: RDJ/IA/OA sub-loop	RDJ-2T, OA120, OA130, IA120 and IA130	ON	OFF
Type 2: EV-PP (IDA) sub-loop	EV-PP/IA120, EV-PP/IA130, EV-PP/IA130-2T/RDJ-2T, EV-PP/OA120, EV-PP/OA130 and EV-PP/SID38T	ON	OFF
Type 3: NS Remote indication	NS-AOS, NS-AOHS, NS-AIS, NS-AIHS, NS-AH/A1S, NS-AH/CS and NS-AUV	OFF	ON
Type 4: EV-P/H Remote indication	EV-P, EV-PH, EV-DP, EV-DPH-A2R, EV-DPH-CS, EV-H/A1R, EV-H/CS, CN-P, CN-PH, CN-DP, CN-DPH-A2R, CN-DPH-CS, CN-H/A1R, CN-H/CS and CN-PYH	ON	ON
Type 5: CS Remote indication	CS-PYH	OFF	ON
Type 6: Remote output (RIL)	CD-PH	ON	ON

Tone Selection

Tone no.	Tone type	Specification	Description/ Country	Min dB(A) @ 1 m*	Settings DIP 1-3		
					1	2	3
1	Continuous 	2400 Hz (BS5839-1)	IMO Code 2 (High) / UK**	93	OFF	OFF	OFF
2	Alternating 	800 - 1105 Hz with 2 Hz repeat rate	Sweden***	81	ON	OFF	OFF
3	Intermittent 	1105 Hz, 1s ON / 1s OFF	Fire tone	74	OFF	ON	OFF
4 - 16	N/A	Not used					

* SPL data ± 3 dB(A)

** Recommended tone for marine applications

*** Recommended tone for building applications

Installation

Mounting

The CD-S sounder is easily attached to the detector base CD-B/UB-6.

1. Remove the cut out piece (A) from the base, using a knife or a pair of pliers.
2. Attach the sounder to the base.
3. Connect the cables as described in section [Wiring](#).
4. Mount the base with the sounder:



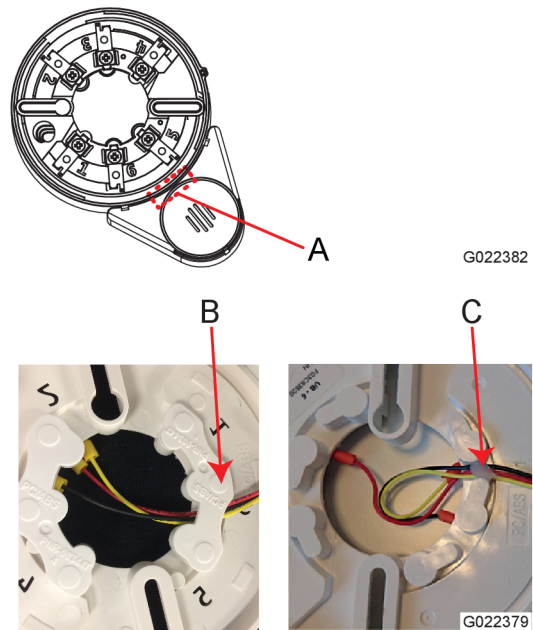
NOTE!

The base with sounder must be mounted on a flat surface.

Prevent malfunction caused by cables being squeezed between base and ceiling:

For CD-B, remove the piece of plastic (B) protecting the screws. Place the CD-S cables in the space between them and reattach the protective plastic.

For UB-6, fix the CD-S cables with a suitable fixing compound (C).



Wiring

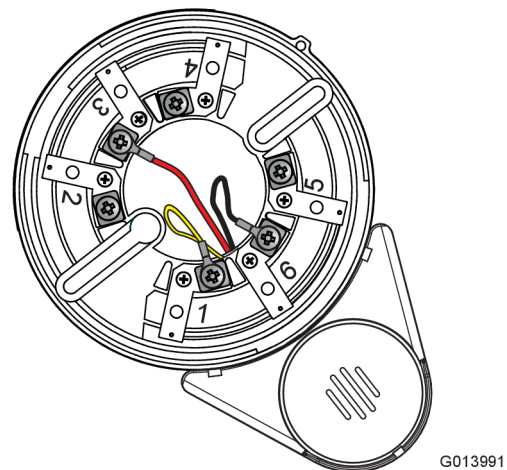
Connect the cables from CD-S to the detector base CD-B/UB-6 according to the following tables and illustrations.

Colour coded cables for connection to CD-B/UB-6 terminals

Sounder (+)	Red
Sounder (-)	Black
Sounder control	Yellow

Connection alternative 1 for Type 1 and Type 2

RDJ-2T	EV-PP/IA130-2T/RDJ-2T
OA120	EV-PP/IA120
OA130	EV-PP/IA130
IA120	EV-PP/OA120
IA130	EV-PP/OA130
	EV-PP/SID38T

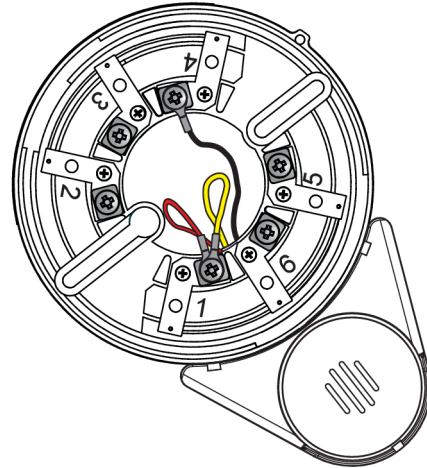


Type	CD-B/UB-6 Base terminals					
	1	2	3	4	5	6
Type 1: RDJ/IA/OA sub-loop	Sounder control		Sounder (+) Loop (+)			Sounder (-) Loop (-)

Type	CD-B/UB-6 Base terminals					
	1	2	3	4	5	6
Type 2: EV-PP (IDA) sub-loop	Sounder control		Sounder (+) Loop (+)			Sounder (-) Loop (-)

Connection alternative 2 for Type 1 and Type 2

RDJ-2T EV-PP/IA130-2T/RDJ-2T
 OA120 EV-PP/IA120
 OA130 EV-PP/IA130
 IA120 EV-PP/OA120
 IA130 EV-PP/OA130
 EV-PP/SID38T

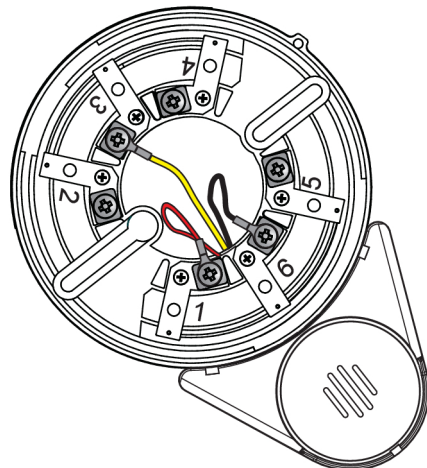


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Type	CD-B/UB-6 Base terminals					
	1	2	3	4	5	6
Type 1: RDJ/IA/OA sub-loop	Sounder control Sounder (+)		Loop (+)	Sounder (-)		Loop (-)
Type 2: EV-PP (IDA) sub-loop	Sounder control Sounder (+)		Loop (+)	Sounder (-)		Loop (-)

Connection for Type 3 and Type 4 on CD-B/UB-6 without SCI

NS-AOS EV-P
 NS-AOHS EV-PH
 NS-AIS EV-DP
 NS-AIHS EV-DPH-A2R
 NS-AH/A1S EV-DPH-CS
 NS-AH/CS EV-H/A1R
 NS-AUV EV-H/CS

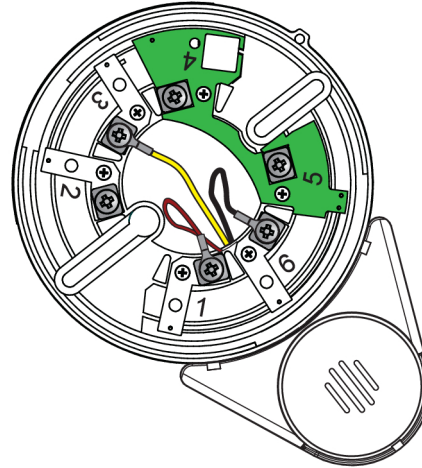


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Type	CD-B/UB-6 Base terminals					
	1	2	3	4	5	6
Type 3: NS Remote indication	Sounder (+) Loop (+)		Sounder control			Sounder (-) Loop (-)
Type 4: EV-P/H Remote indication	Sounder (+) Loop (+)		Sounder control			Sounder (-) Loop (-)

Connection for Type 3 and Type 4 on CD-B/UB-6 with SCI

- | | |
|-----------|------------|
| NS-AOS | EV-P |
| NS-AOHS | EV-PH |
| NS-AIS | EV-DP |
| NS-AIHS | EV-DPH-A2R |
| NS-AH/A1S | EV-DPH-CS |
| NS-AH/CS | EV-H/A1R |
| NS-AUV | EV-H/CS |

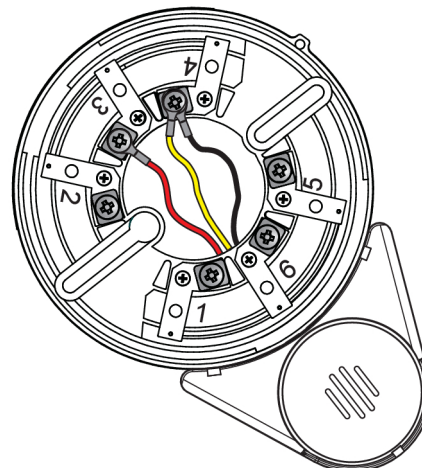


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Type	CD-B SCI/UB-6 SCI Base terminals					
	1	2	3	4	5	6
Type 3: NS Remote indication	Sounder (+) Loop IN (+) Loop OUT (+)		Sounder control	Loop IN (-)	Loop OUT (-)	Sounder (-)
Type 4: EV-P/H Remote indication	Sounder (+) Loop IN (+) Loop OUT (+)		Sounder control	Loop IN (-)	Loop OUT (-)	Sounder (-)

Connection for Type 5

- CS-PYH

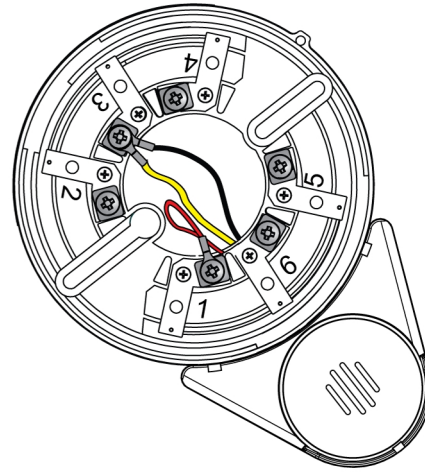


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Type	CD-B/UB-6 Base terminals					
	1	2	3	4	5	6
Type 5: CS Remote indication			Sounder (+) Loop (+)	Sounder control Sounder (-)	Loop IN (-)	Loop OUT (-)

Connection for Type 6

CD-PH



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Type	CD-B/UB-6 Base terminals					
	1	2	3	4	5	6
Type 6: Remote output (RL)	Sounder (+) Loop (+)		Sounder Control Sounder (-)		Loop IN (-)	Loop OUT (-)

CD-S as a Replacement Unit

Compared to SUM-2 the CD-S has a DIP switch for type selection and an additional yellow cable that shall be connected as described below:

- When replacing a SUM-2 connected to a detector type 1 or 2:
 1. Set the DIP switch according to the [Detector Type Selection](#) section.
 2. Connect the red and yellow cable to the P/1 terminal.
 3. Connect the black cable to the R/4 terminal.
- When replacing a SUM-2 connected to a detector type 3 or 4:
 1. Set the DIP switch according to the [Detector Type Selection](#) section.
 2. Connect the red cable to the P/1 terminal.
 3. Connect the black and yellow cable to the L/3 terminal.
- It is also possible to change the connection totally and use one of the connection examples mentioned above in this data sheet.

Dimensions (mm)

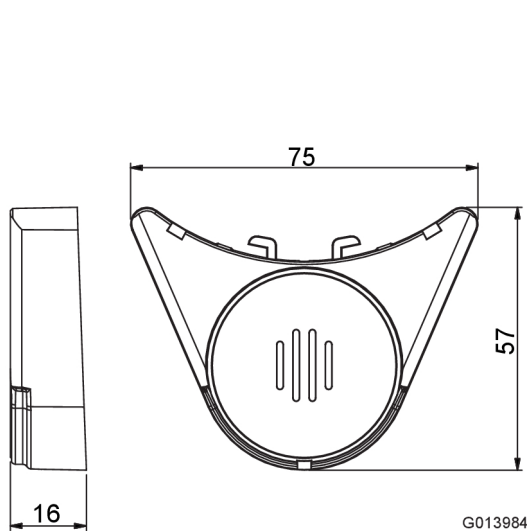


Figure 1. Dimensions for CD-S

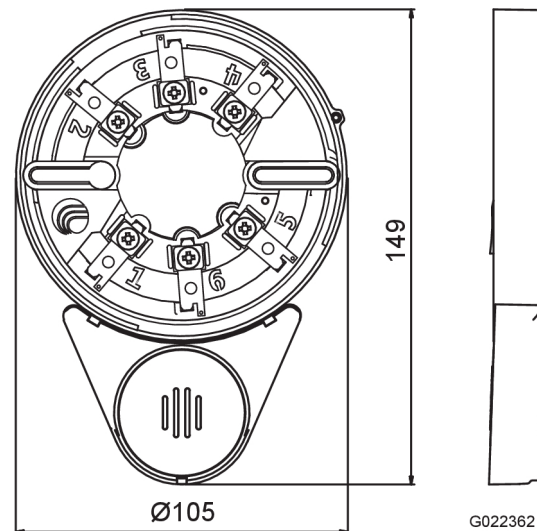


Figure 2. Dimensions for CD-BIUB-6 and CD-S