



TECHNICAL MANUAL

SCAS

Hospital and Refrigerator Alarm System

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1 Basic information

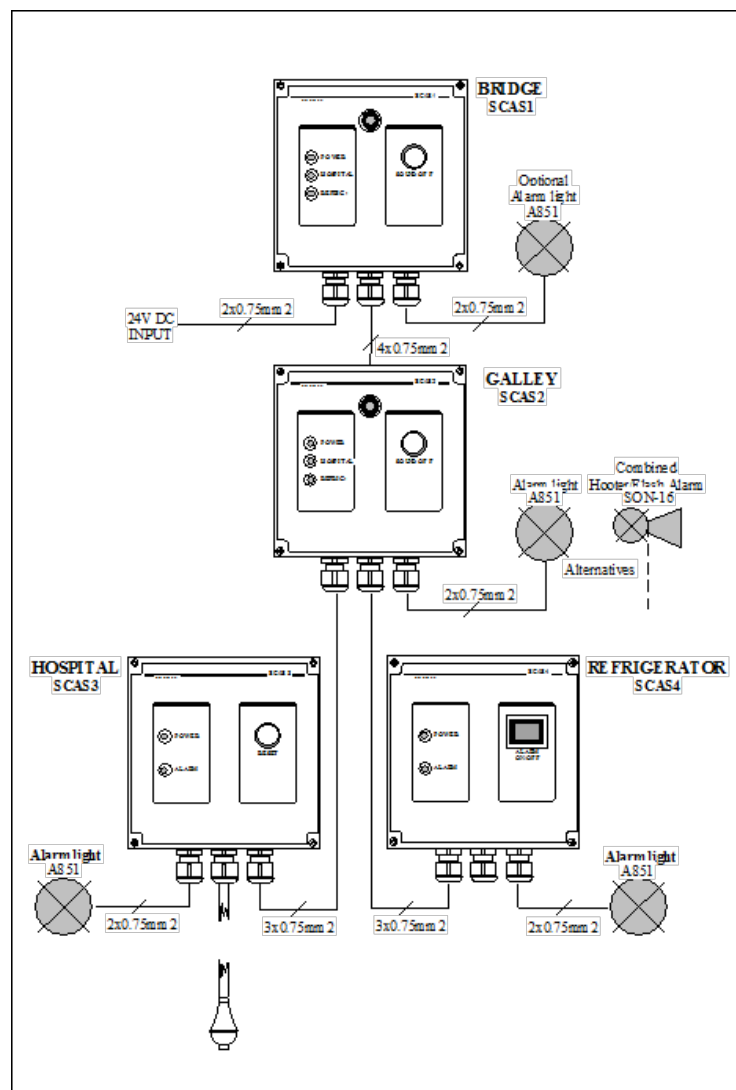
1.1 REVISION HISTORY

Document no. A100K10869
 Last revised by: S.E.Nilsen
 Revision: 02
 Date: 05.05.2017

2 System overview

2.1 GENERAL

This Marine Hospital and Refrigerator Alarm System, SCAS, is an alarm system that enables a person trapped in a refrigeration room or lying in a hospital bed to call for help from the bridge and/or galley. The system is designed to meet the classification society requirements



2.2 TECHNICAL DESCRIPTION

2.2.1 SCAS-1 Bridge Unit

- Indication lamps for power availability, hospital alarm and refrigeration alarm.
- Buzzer for audible alarm
- Push button to switch of the sound (max. 3 minutes).
- 24V DC input with fuse protection
- Connection for extra signal device console or bulkhead mounted.

2.2.2 SCAS-2 Galley Passageway Unit

- Same configuration as SCAS 1 except 24V DC input.
- Bulkhead mounting
- Weather proof
- Connection for extra signal device console or bulkhead mounted.

2.2.3 SCAS-3 Hospital Unit

- Indication lamps for power availability and hospital alarm.
- Indication lamps for power availability and hospital alarm.
- Connection for 2 alarm activating bed switches.
- Alarm reset push - button.
- Bulkhead mounting.
- Connection for signalling device (to be placed outside the room)
- Connection possibility for additional hospital unit.

2.2.4 SCAS-4 Refrigerator Unit

- Indication lamps for power availability and refrigeration alarm.
- Alarm on/off push-button.
- Connection for signalling device (to be placed outside the room)
- Connection possibility for additional refrigeration unit weather proof IP 65.

3 Installation procedures

3.1 GENERAL

For proper installation and operation of the SCAS-system, we recommend reading this section thoroughly together with installation documents in chapter 5, Appendix

Make sure that all mounting and cabling are correct before switching on.

3.2 INSTALLATION SCAS-1,2,3,4

For The SCAS-1 can be flush or bulkhead mounted. The SCAS-2, 3 and 4 for bulkhead mounting only. The units is equipped with screw terminals for cables max.2, 5mm²

Note! Make sure that it is sufficient space for cables and maintenance.

3.3 INSTALLATION OF EXTRA LAMP.

Have to be installed outside refrigerator rooms

3.4 CABLE REQUIREMENTS

Cables have to be min. 2 x 0,75mm² with outer isolated screen.

See cable connection diagram appendix 5.1.5 for details

3.5 POWER SUPPLY REQUIREMENT

System power supply should be wired and fused independently from other systems.

24 – 32V DC Current consumption max. 2A

Current consumption depending on number of external alarm device.

4 Operation Instructions

4.1 GENERAL

The Power must always be on, indicated with steady green LED.
When an alarm is activated, a light on the panel will indicate. An extra lamp (optional) outside the actual room will also indicate. At the same time, the alarm light on the galley and/or bridge unit will flash and buzzer will sound. Buzzer can be muted for 3 minutes, however the alarm can only be reset on the hospital or refrigeration room unit depending on which alarm that has been activated.

4.2 SCAS-4 REFRIGERATOR UNIT

- Activate the alarm by pressing the “ALARM ON/OFF” switch Indicated with red light flashing in the LED marked “ALARM” and steady light in external lamp , if installed.
- Switch off the alarm by 2`nd pressing on the “ALARM ON/OFF” switch
- *Indicating in SCAS-1 and SCAS-2.*
Flashing red light in the LED marked “REFRIG” together witha tone signal from the buzzer, and steady sound or light in external alarm device, if installed.
By pressing the switch, marked “SOUND OFF” the buzzer will be muted for approx.3minut
Note! The alarm can only be Switch off from the SCAS-4

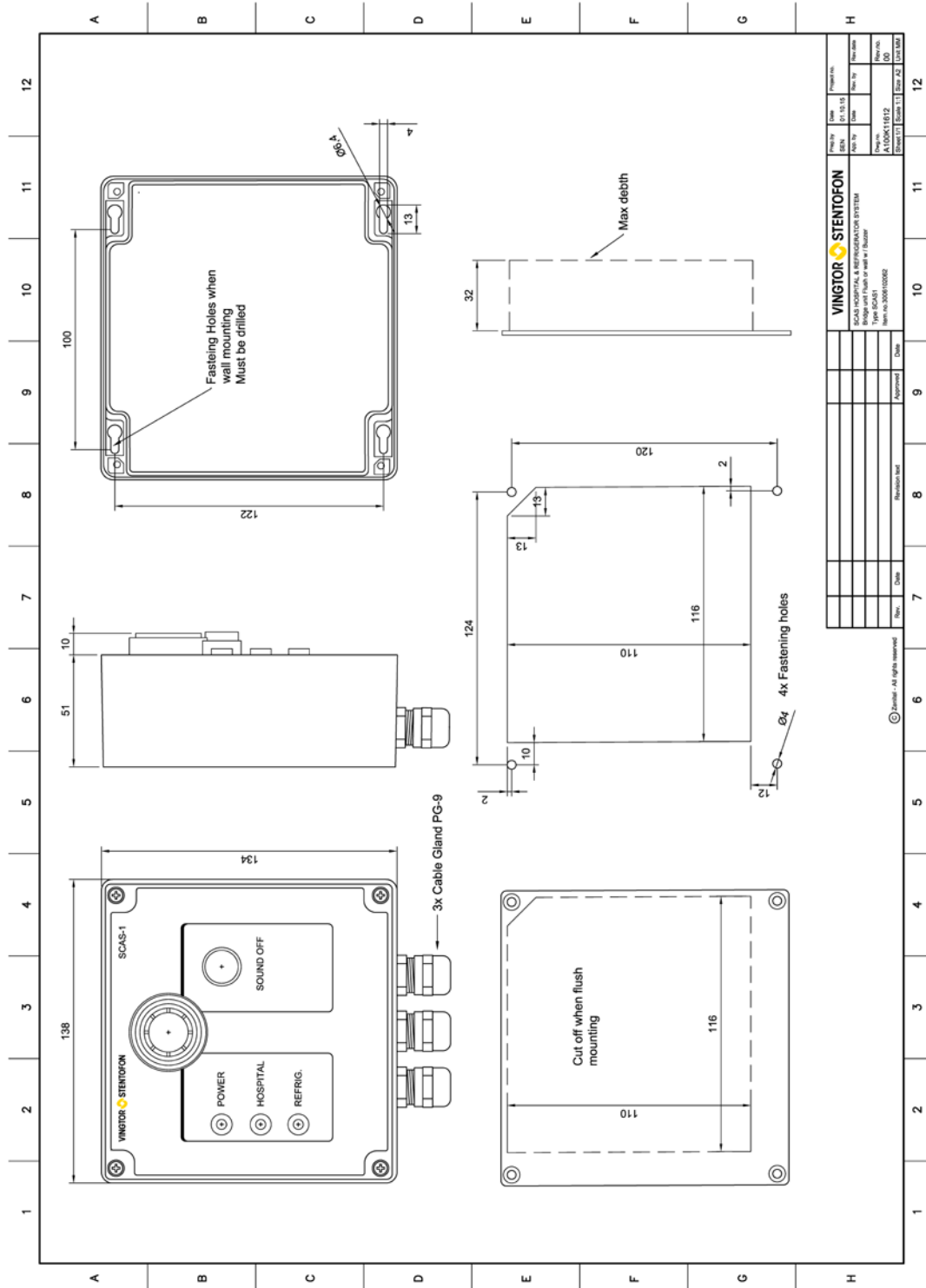
4.3 SCAS-3 HOSPITAL UNIT

- Activate the alarm by pressing on the “BED-SWITCHES” Indicated with red light flashing in the LED marked “ALARM” and steady light in external lamp, if installed.
- Switch off the alarm by pressing the switch marked “RESET
- *Indicating / operation on SCAS-1 and SCAS-2*
Flashing red light in the LED marked “HOSPITAL” together w
a tone signal from the buzzer, and steady sound or light in external alarm device, if installed.
By pressing the switch, marked “SOUND OFF” the buzzer will be muted for approx 3 minute.
Note! The alarm can only be Switch off from the SCAS-3.

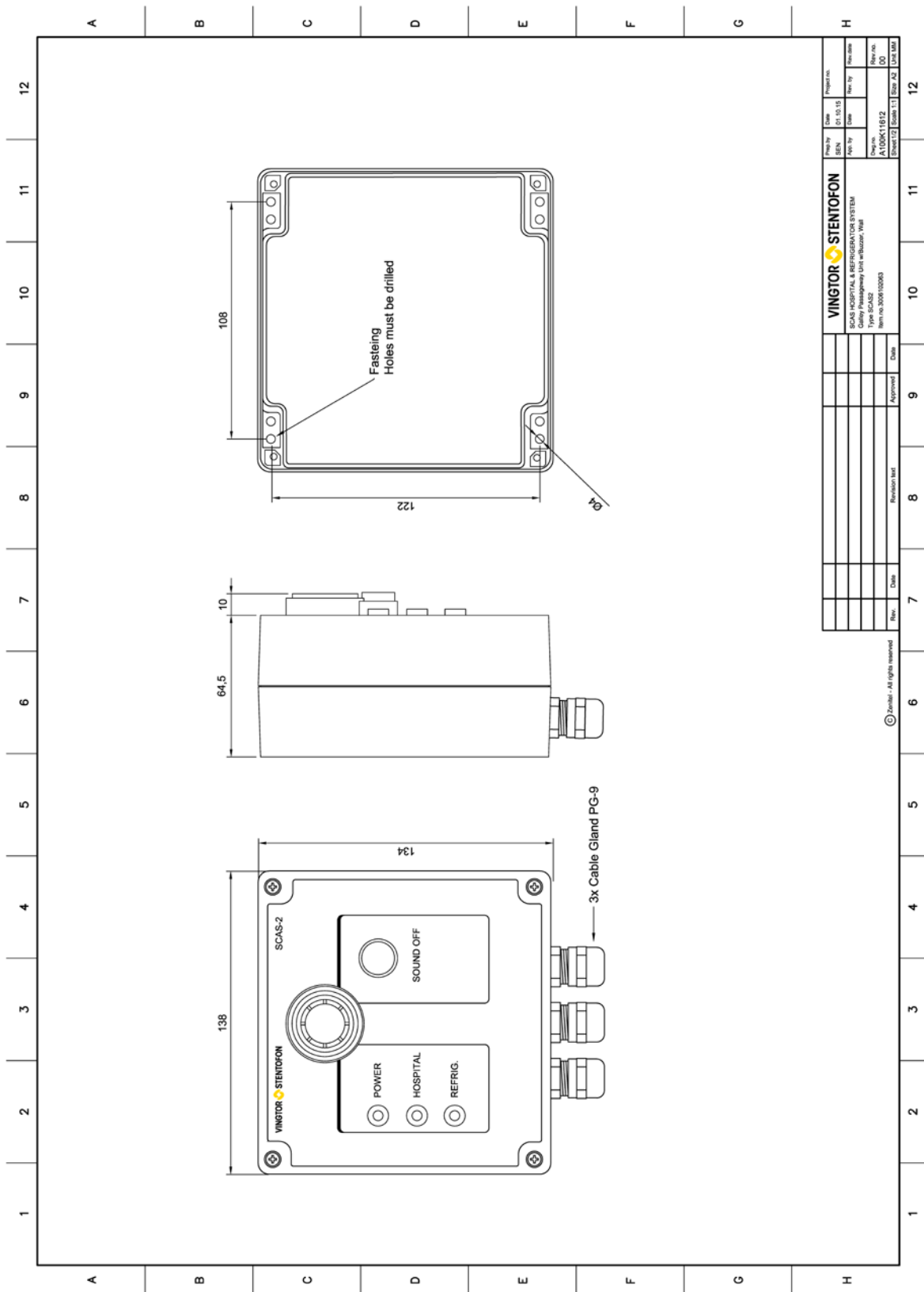
5 Appendix

5.1 TECHNICAL DOCUMENTS

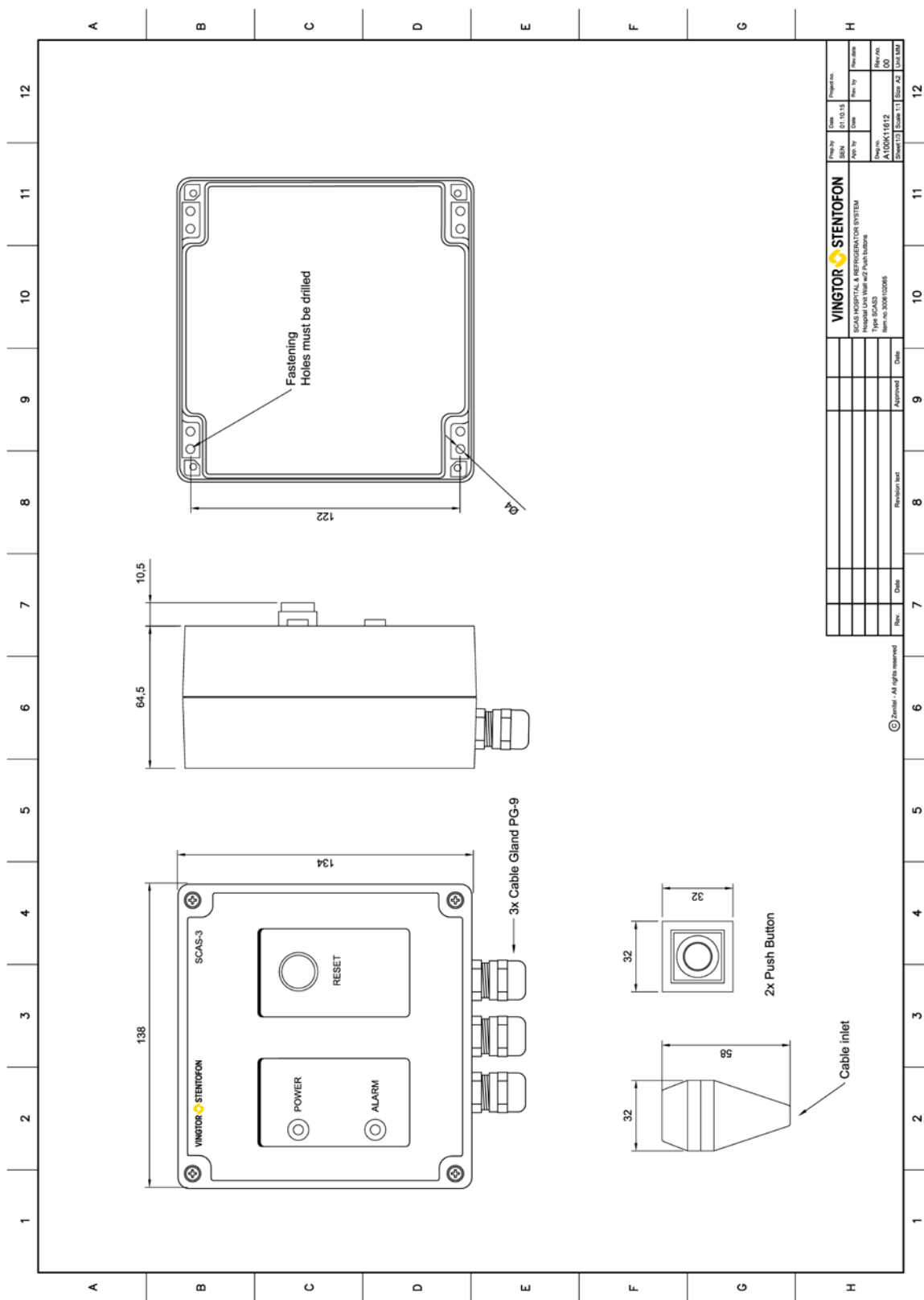
5.1.1 SCAS-1 Bridge Unit



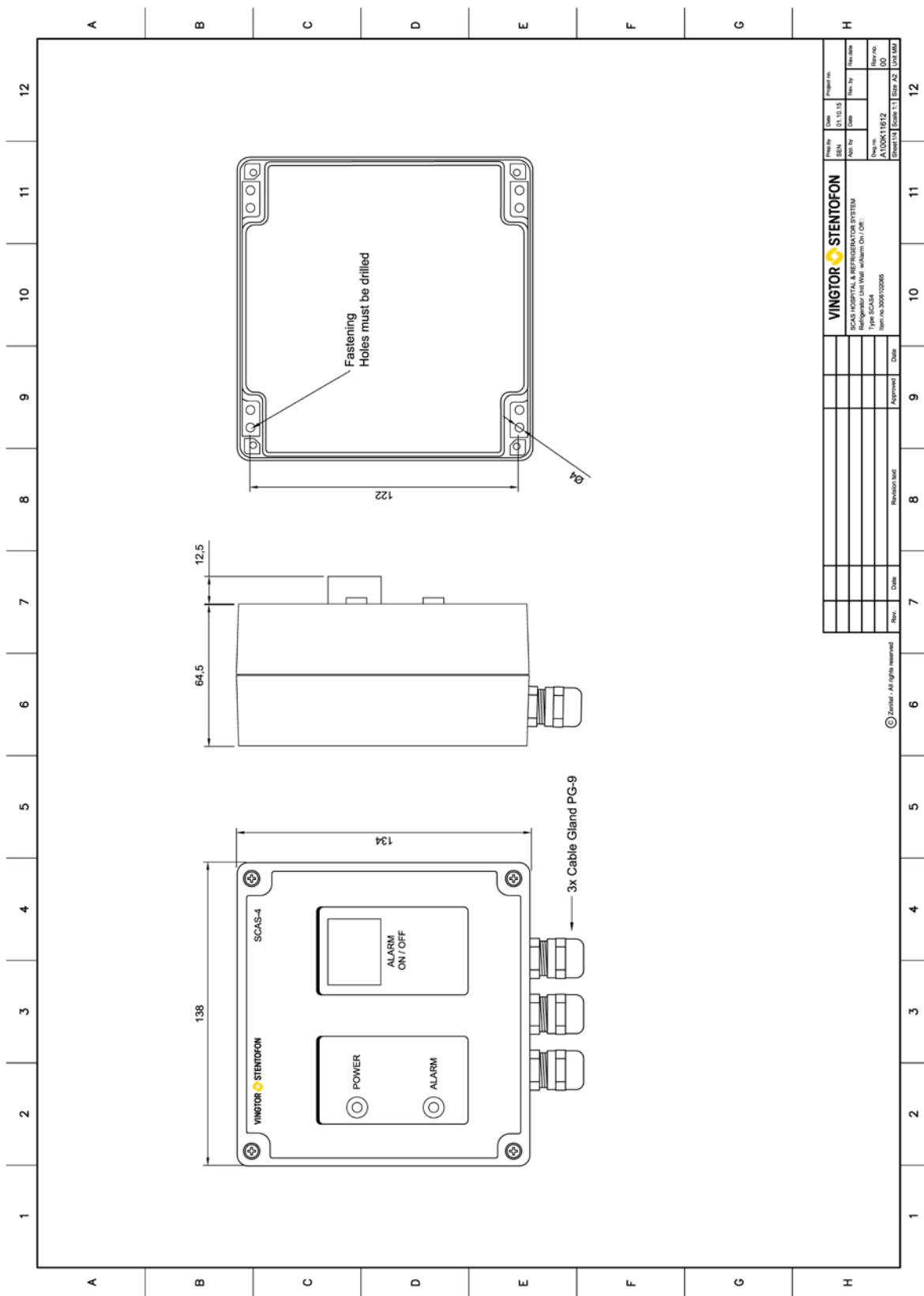
5.1.2 SCAS-2 Galley Passageway Unit



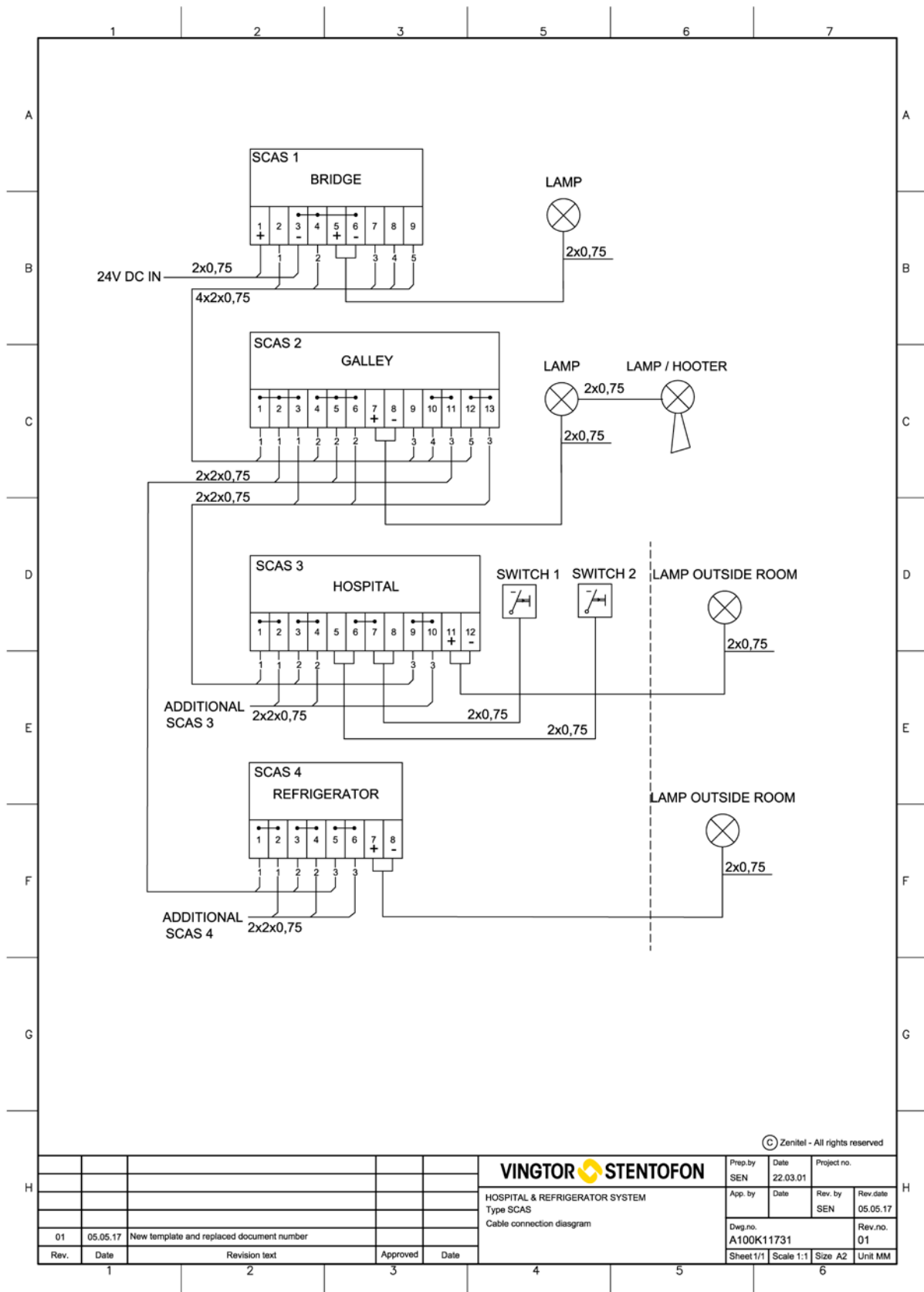
5.1.3 SCAS-3 Hospital Unit




5.1.4 SCAS-4 Refrigerator Unit



5.1.5 SCAS Cable Connection Diagram



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					Prep. by	Date	Project no.	
					SEN	22.03.01		
HOSPITAL & REFRIGERATOR SYSTEM Type SCAS Cable connection diagram					App. by	Date	Rev. by	Rev. date
					SEN		SEN	05.05.17
					Dwg. no.	Rev. no.		
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