scanreco SRC-RCAN Transceiver Module User Manual

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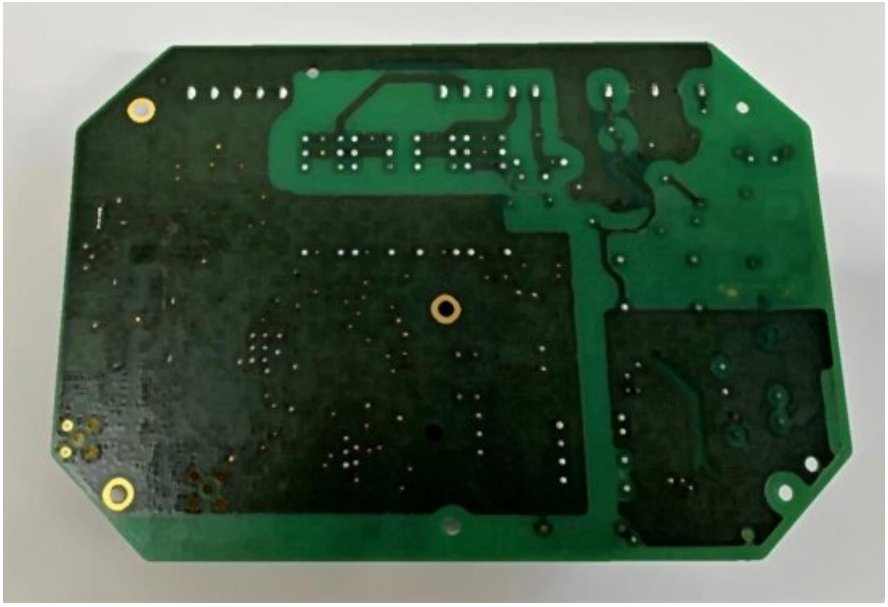
1. Introduction

This module is intended to be installed in a Control unit system as a transceiver by Scanreco AB and it is designed preferably for wireless control of crane installations, travelling hoist units, chain and rope hoists, transfer carriages and similar applications.

2. SRC-RCAN transceiver module



3. Terminal connection

Connector (CAN)	Signal	Description
G	CAN Ground	
L	CAN LOW	CAN-bus signal CAN low
		No function (Resting position for optional shield)
H	CAN HIGH	CAN-bus signal CAN high
		No function (Resting position for optional CAN V+)

Connector (Relays)	Signal	Description
C	Function relay common	Common signal for Function relays
F1	Function relay 1	Function relay 1 output (Horn)
F2	Function relay 2	Function relay 2 output (Light)
SC	STOP Common	Common signal for STOP relays
S	STOP	STOP relays output (2 in series)

Connector (Mains)	Signal	Description
N	Neural	Power neural supply 48VAC – 230VAC (50/60Hz)
⏚	GND	Protective Earth
L	Line	Power line supply 48VAC – 230VAC (50/60Hz)

4. Radio specification

Attribute	Information
Frequency	2405-2480 MHz
Channels	16
Channels management	FHSS
Channel BW	2.8 MHz
Channel separation	5 MHz
RF Power	0.098 W Max
Modulation	0-QPSK
Range	100 meters

5. Antenna specification

This radio transmitter, 6476A-SRCRCAN, has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

N	Antenna type	Details	Manufacturer	Part number	Connector	Gain, dBi
1	Omni-directional	Dipole(whip), L=82mm, Ø17mm	Scanreco	50250	TNC	2 dBi
2	Omni-directional	Monopole, F shape, H=23mm, Ø 76 mm	Reel	M70XCR/ M71XCR	TNC	4 dBi
3	Omni-directional	Monopole, F shape 22mmx7mm	Scanreco	50127	Soldered	2 dBi

6. Installation

Pos.	Article	Nr.
1	Host Bottom Section	1
2	Ventilation Membrane PTFE	1
3	SRC-RCAN module	1
4	Screw Torx 3,0x8mm Zinc Plated	6

N	Instruction
1	Place the membrane (Pos 2) in the Host bottom part (Pos 1) acc. to figure 1.
2	Mount the SRC-RCAN module (Pos 2) with 6 screws (Pos 4). Torque = 0.7 Nm.

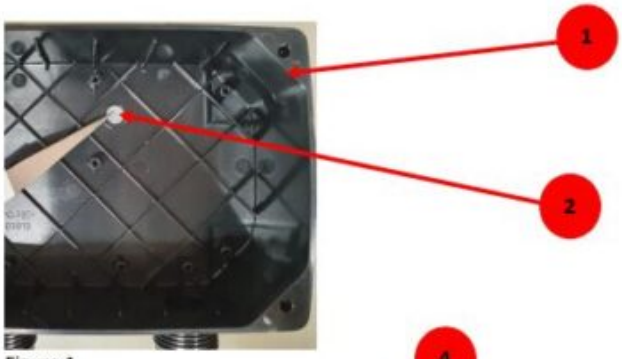


Figure 1

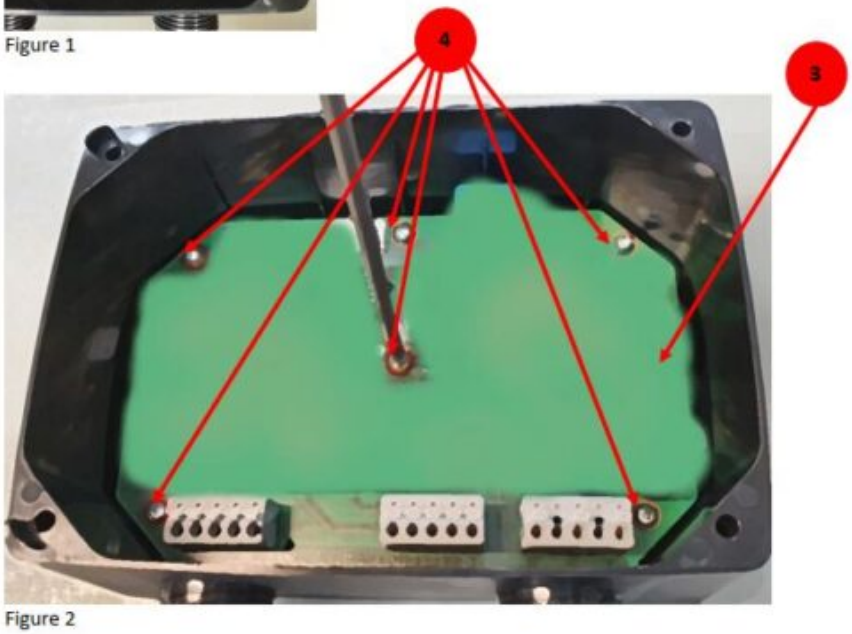


Figure 2

Note: Cables should always be routed away from the module to avoid interference with the radio.

7. Regulatory information

7.1 FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device compiles with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

7.2 Industry Canada Information

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-3 (A)/NMB-3(A)

7.3 Radiation Exposure Statement

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Revision history

Release	Date: YYYY-MM-DD	Edited By	Changes
A	2021-06-17	Fredrik Markström	Rev A
B	2021-11-16	Fredrik Markström	Rev B

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