RDC EVO | RADIO CAN BUS MODULE

- Bi-directional radio module for remote machinery control equipped with a CANbus network
- Designed to operate in systems with high safety level architectures
- Compatible with SIL2 and PLd standards.
- Integrated adjustable antenna
- Polyurethane resin wrap and the DEUTSCH type connector

TECHNICAL FEATURES	
MASTER CODE	RDC.438
POWER SUPPLY	9-30 VDC CURRENT CONSUMPTION: 30 mA (min) – 100 mA (max) @ 24VDC
CAN BUS FEATURES	CAN BUS 2.0B COMPLIANT – (11, 29 BIT) – ISO 11898-2 UP TO 1Mbit/s
CAN BUS PROTOCOLS	CAN OPEN protocol (CIA DS401 DEVICE PROFILE FOR GENERIC I/O MODULE, WITH DS306 EDS FILE) Baud rate: 10, 20, 50, 100, 125, 250, 500, 1000 kbps (Default = 250 kbps)
RADIO FEATURES	NOMINAL FREQUENCY: 868 MHz / 433.92 MHz MULTI-CHANNEL WITH AUTOMATIC FREQUENCY SCAN OPERATIVE RANGE: 100m * ANTENNA: EXTERNAL or INTEGRATED (only for 868 MHz)
RADIO PROTOCOL	PACKET TRANSMISISON PROTOCOL BIDIRECTIONAL LINK SAFETY STOP INTERVENTION TIME < 0,5s
CONNECTIONS	MAIN: TE DEUTSCH DTF13-6P ANTENNA: SMA socket
CASE	ENCAPSULATED IN PUR RESIN - SELF-EXTINGUISHING UL94 (V0)
PROTECTION	INTEGRATED ANTENNA: IP68 SMA ANTENNA: IP65
WORKING TEMPERATURE	-40°C +85°C

Scan me

ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - Tel. +39 0173 742821 - www.almec.net - info@almec.net

RDC EVO

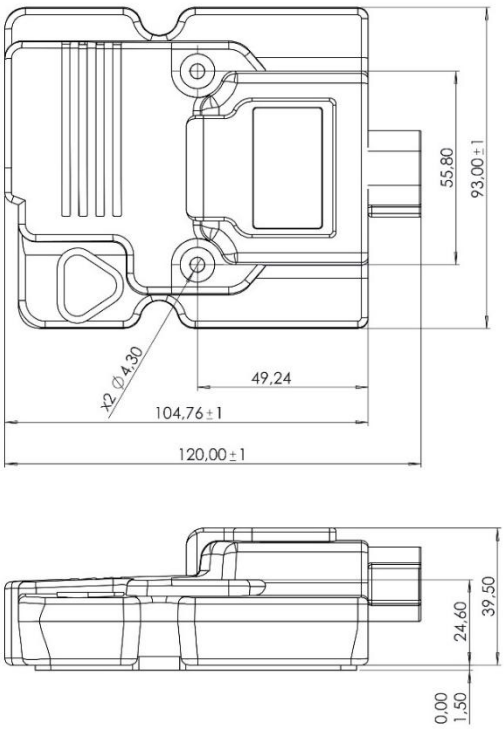
RADIO CAN BUS MODULE

ELECTRONIC FEATURES	
SLAVE USAGE	EDS FILE
PROGRAMMING	FIRMWARE UPLOAD BY CAN BUS WITH ALOADER SOFTWARE TOOL
CYCLE TIME	RADIO CONNECTION: 50 ms LOGIC: < 1 ms
INTERNAL SYSTEM CONTROL	DUAL REDUNDANT CPU WITH WATCHDOG SELF CHECKED SAFETY OUTPUT RELAY

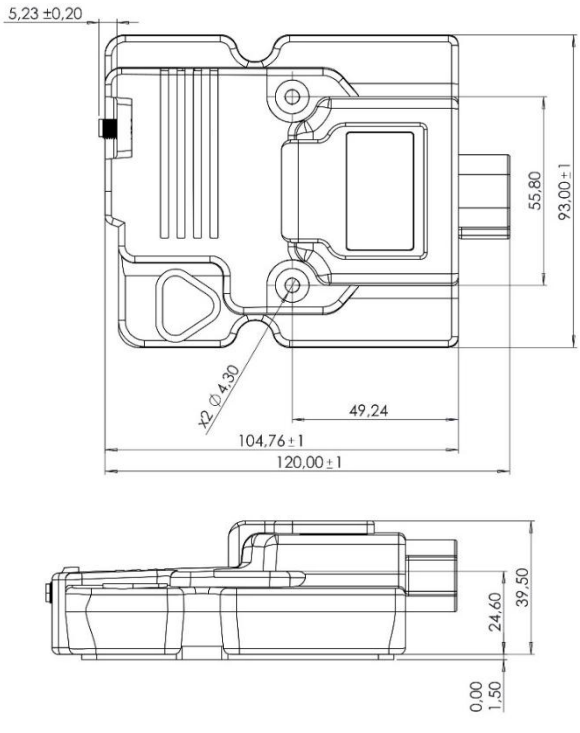
ELECTRONIC FEATURES	
APPROVALS	CE (RED) UKCA
Health and safety - Article 3.1(a)	EN 62479:2010 EN 50663:2017
Electromagnetic compatibility - Article 3.1(b)	ETSI EN 301 489-1 v.3.2.1 (2021/11) ETSI EN 301 489-3 v.2.1.1 (2017/03)
Efficient use of radio spectrum - Article 3.2	ETSI EN 300 220-1 v.3.1.1 (2017/02) ETSI EN 300 220-2 v3.2.1 (2018/06)
ENVIRONMENTAL TESTING	IEC 60068-2-64 IEC 60068-2-27 IEC 60068-2-27 IEC 60068-2-30
PROTECTION	IEC 60529
SAFETY	EN ISO 13849-1 PLd – SIL2 (DUAL-CHANNEL INTERNAL SCHEME)

SIZE (mm)

Integrated antenna



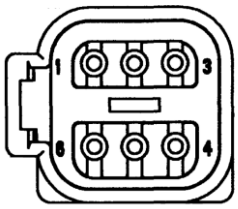
SMA antenna connector



ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - Tel. +39 0173 742821 - www.almec.net - info@almec.net

CONNECTOR PINOUT

MAIN CONNECTOR



PIN	DESCRIPTION
1	POSITIVE POWER SUPPLY
2	SAFETY DRY CONTACT OUT
3	SAFETY DRY CONTACT IN
4	CAN L
5	CAN H
6	GND

MATING CONNECTOR CODES
CONNECTOR: DT06-6S
TERMINALS: 1062-16-1422/1062-16-1222 or similar (x6)
CAP: W6S


DT06-6S


TERMINALS


W6S

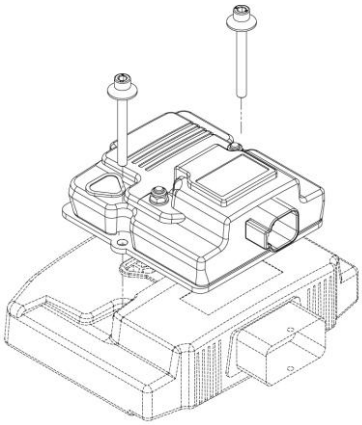
SMA EXTERNAL CONNECTOR

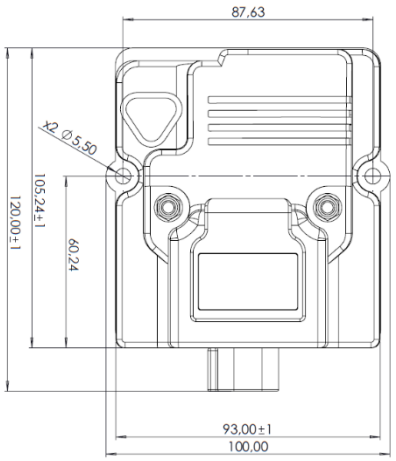
WHIP ADJUSTABLE ANTENNA
SMA PLUG
868 / 433 MHz BAND
Housed in a rugged flexible plastic

PUK RUGGED ANTENNA
SMA PLUG with RG174 CABLE LENGHT 1,5 m
868 & 433 MHz BAND
Housed in waterproof IP67 rugged low-profile
Fixed through M14

FEATURES

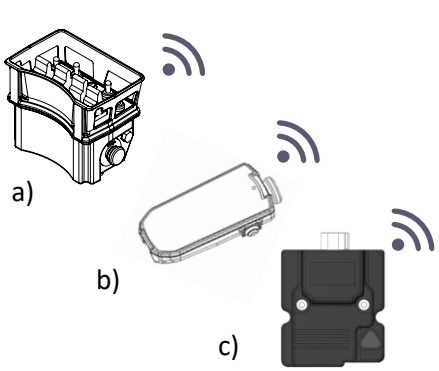
OPTIONAL:
RETRO-FIT KIT
For RD.CAN.S02/03/11/15 replacement composed by:
- STEEL BASEHOLE ADAPTER PLATE
- RETROFIT ADAPTER CONNECTOR





RADIO PAIRING WITH ALMEC PRODUCTS:

a) **AL50RC** radio console series with proportional controllers
b) **ALNWR** radio pushbutton series
c) **RDC EVO** device for point-to-point radio link



ALMEC S.p.A. (a socio unico) - Via Torino 196 - 12063 - Dogliani (Cn) - Tel. +39 0173 742821 - www.almec.net - info@almec.net

NOTE