



AL50R

RADIO PORTABLE CONSOLLE



- Portable remote-control device for industrial lifting machines, materials handling and aerial platforms equipped with the RDC EVO receiver
- Up to 2 double-axe proportional joysticks
- Up to 10 pushbuttons
- Up to 12 led
- Emergency pushbutton with dry contacts
- Fully customizable layout
- Hamming security code for continuous work without interruptions on 434 or 868 MHz band

TECHNICAL FEATURES

MASTER CODE	AL50R.453	
POWER SUPPLY	BATTERY: INTEGRATED NI-MH AUTONOMY: UP TO 8 HOURS IN CONTINUOS TRANSMISSION (MAX 4 HOURS FOR A COMPLETE CHARGE)	
COMMUNICATION PORTS	RADIO: 868 MHz / 434 MHz BAND	
RADIO FEATURES	BAND: 868 MHz (869.700-870.00 MHz) / 434 MHz (433.050-434.790 MHz) CHANNELS: 12 (AUTOMATIC FREQUENCY SCAN) MODULATION: 2-GFSK\	
RADIO PROTOCOL	PACKET TRANSMISISON PROTOCOL (PROPRIETARY) BIDIRECTIONAL LINK HAMMING DISTANCE = 4 SAFETY STOP INTERVENTION TIME < 0,5s	
CONNECTIONS	BATTERY CHARGER: jack connector for battery charger 220VAC-12VDC adapter	
CASE	BLACK PA	
HANDLING	Waist belt/ shoulder strap	
TEMPERATURE	BATTERY SPECS: CHARGING T.: 0+45°C STORAGE T.: -20+45°C OPERATING: -10+ 60°C	ELECTRONIC SPECS: OPERATING T.: -25+70°C STORAGE T.: -40+70°C
PROTECTION	IP65	



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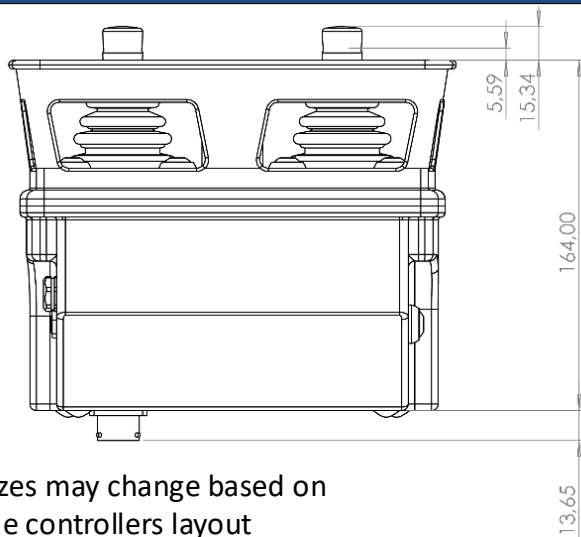
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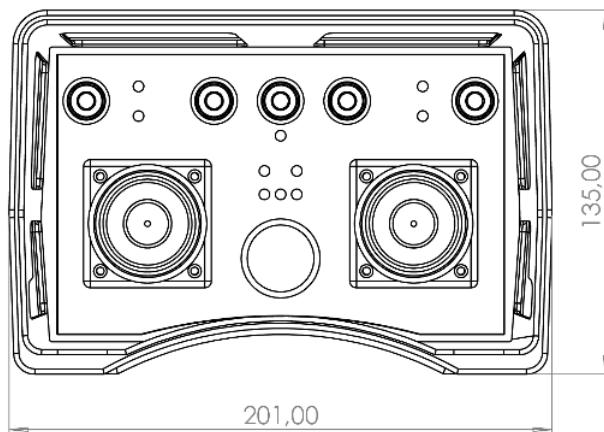
STANDARDS

ELECTROMAGNETIC (EMC)	ACCORDING TO DIRECTIVE 2014/30/EU:
	EN 61000-6-4
	EN 61000-6-2
	EN 50498
ROAD VEHICLES	ISO 7637-2: 2011 ISO 11452-1: 2005
INFORMATION TECHNOLOGY EQUIPMENT – SAFETY	EN 60950-1
RADIO SPECTRUM MATTERS (RED)	ACCORDING TO DIRECTIVE 2014/53/EU:
	ETSI EN 300.220-1
	ETSI EN 300.220-2
	ETSI EN 301.489-1 ETSI EN 301.489-3
PERFORMANCE AND SAFETY INTEGRITY LEVEL	EN ISO 13849-1 PLC – SIL1 (SINGLE-CHANNEL INTERNAL SCHEME)
EMERGENCY STOP BUTTON (manufacturer's specification)	EN60947-5-1 EN60947-5-5

SIZE (mm)



Sizes may change based on the controllers layout



COMPATIBLE RADIO RECEIVER UNIT

MASTER CODE	RDC EVO (SEE THE DATASHEET FOR MORE INFORMATION)
POWER SUPPLY	9 - 30 VDC
COMMUNICATION	NETWORK: CAN BUS 2.0B COMPLIANT – CANOPEN PROTOCOL RADIO: 868 MHz / 434 MHz BAND
CONNECTIONS	MAIN: TE DEUTSCH DTF13-6P ANTENNA: SMA socket
CASE	ENCAPSULATED IN PUR RESIN - UL94 (V0)





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CONNECTOR PINOUT

BATTERY CHARGER CONNECTOR



**VEHICLE CHARGER WITH
CIGARETTE LIGHTER
CONNECTOR (12/24 VDC)**

P/N: ALNWR.276.CB.S01



**BATTERY CHARGER 220
VAC ELECTRICAL SOCKET**

P/N: ALNWR.276.CB.S03



STATUS BAR

EMERGENCY STOP BUTTON

MUSHROOM BUTTON WITH ROTATING RELEASE

USAGE CONDITIONS ON DRY CONTACTS:

3 A a 120 V, AC-15, B300

1,5 A a 240 V, AC-15, B300

0,1 A a 250 V, DC-13, R300

0,22 A a 125 V, DC-13, R300

JOYSTICK

UP TO N.4 ANALOG INPUT FOR:

→ No. 4 SINGLE-AXLE JOYSTICK (X-X) with out-from-center detect input

or

→ No.2 DOUBLE-AXES JOYSTICK (X-Y) with out-from-center detect input

PUSHBUTTONS

N.1 BUTTON FOR DEVICE POWER ON

UP TO 10 DIGITAL INPUTS FOR

- PUSHBUTTON

- TOGGLE SWITCH

- ROCKER SWITCHES

- OTHERS ON REQUEST

SPOTLIGHT LED

N. 5 LEDS for the indication of the operating status, the battery charge level and coded messages

UP TO 7 MONOCROMATIC LED FOR CUSTOMER USAGE

BUZZER

optional



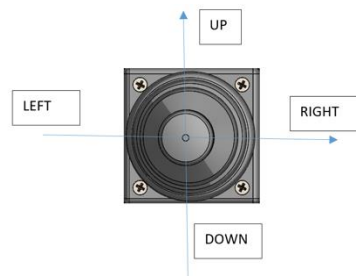
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JOYSTICK FEATURES

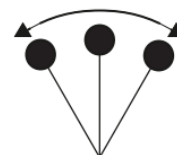
2-AXES

- HALL effect proportional manipulators 2 axes (x and y) with square/cross/diamond/circular limitation.
- Operating angle: 36°
- On request: cross limitation is done via software within 35s of the drive.
- Spring back to center.
- Output: Gain 40% (0.5-4.5V)
- Operating force 1.3N (max 400N)



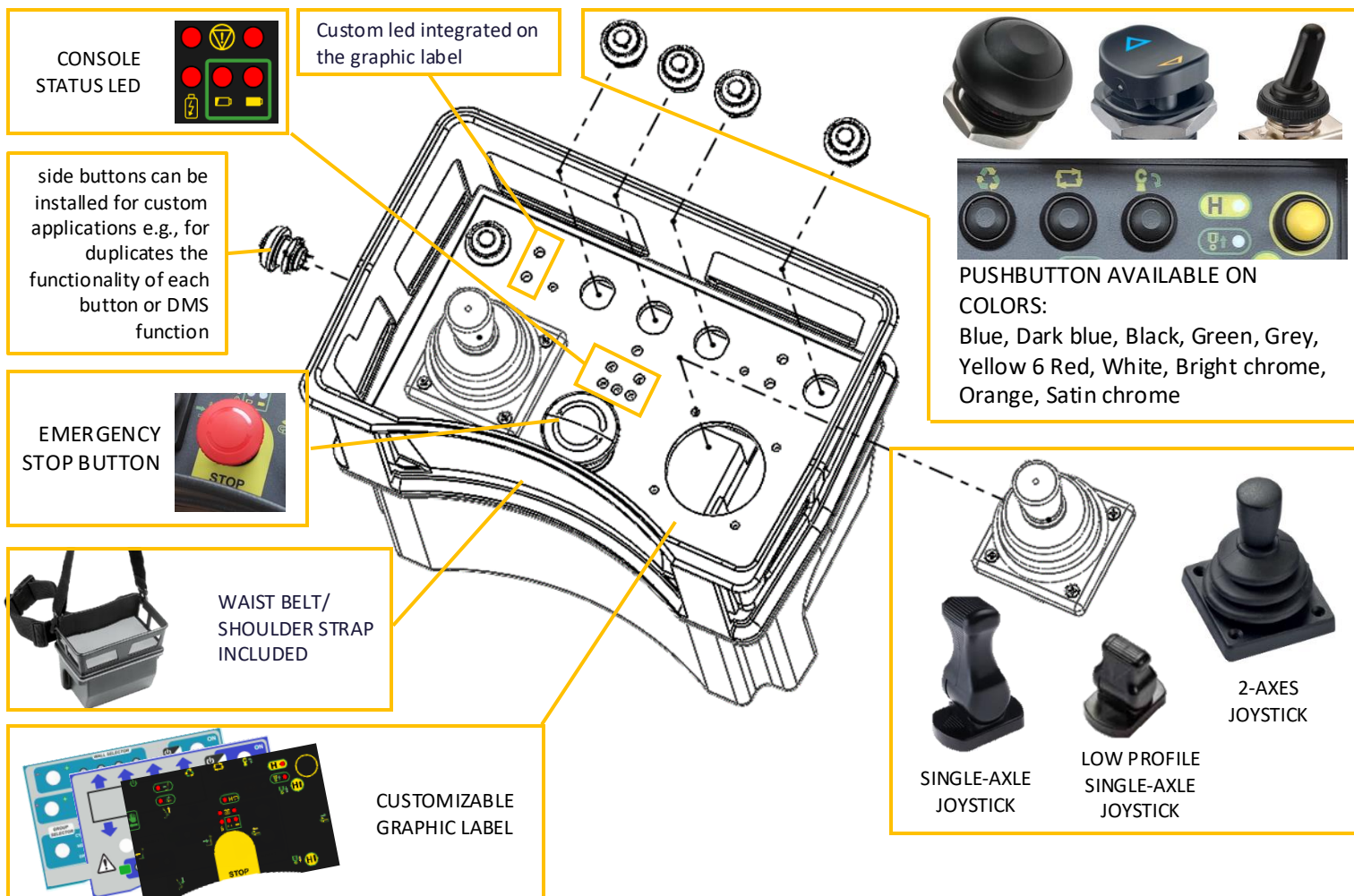
SINGLE-AXLE

- HALL effect proportional manipulators
- Operating angle 25 mm
- Spring back to center.
- Available low profile (in shape) or high profile (out of shape)
- Output: Gain 40% (0.5-4.5V)
- Operating force: 75N



SAMPLE LAYOUT

FULLY COSTUMIZABLE





NOTE