



AL50C

CAN BUS PORTABLE CONSOLE



- Portable control device for industrial lifting machines, materials handling and aerial platforms equipped with a CAN bus network
- Up to 2 double-axe proportional joysticks
- Up to 10 pushbuttons
- Up to 12 led
- Emergency pushbutton with dry contacts
- Fully customizable layout
- Spiral cable and the rugged connector

TECHNICAL DATA

MASTER CODE	AL50C.453
POWER SUPPLY	EXTERNAL POWER SUPPLY: 9-30 VDC
COMMUNICATION PORTS	NETWORK: CAN BUS 2.0B COMPLIANT – (11, 29 BIT) – ISO 11898-2 UP TO 1Mbit/s
CONNECTIONS	MAIN: SOURIAU CONNECTOR with DUST COVER CAP for external p.s., battery charge, CAN bus communication and Emergency button NC dry contact
CASE	BLACK PA
HANDLING	Waist belt/ shoulder strap
TEMPERATURE	OPERATING T.: -25+70°C STORAGE T.: -40+70°C
PROTECTION	IP65

ELECTRONIC FEATURES

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)
PROGRAMMING	FIRMWARE UPLOAD BY CAN BUS WITH ALOADER SOFTWARE TOOL



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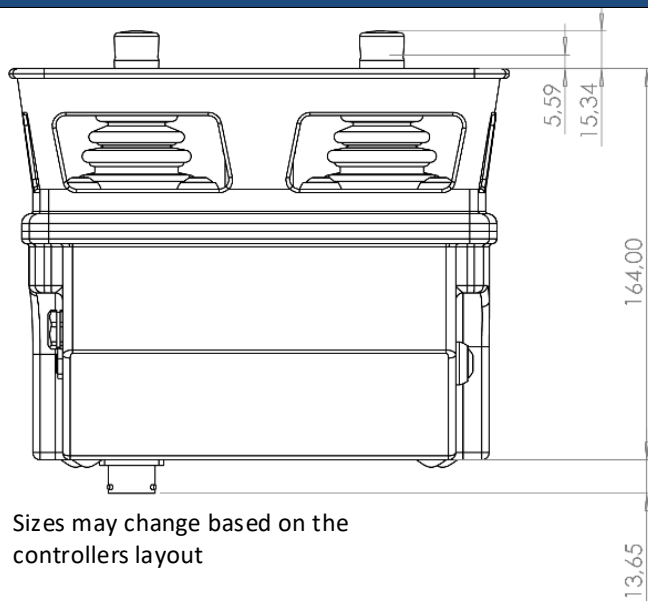
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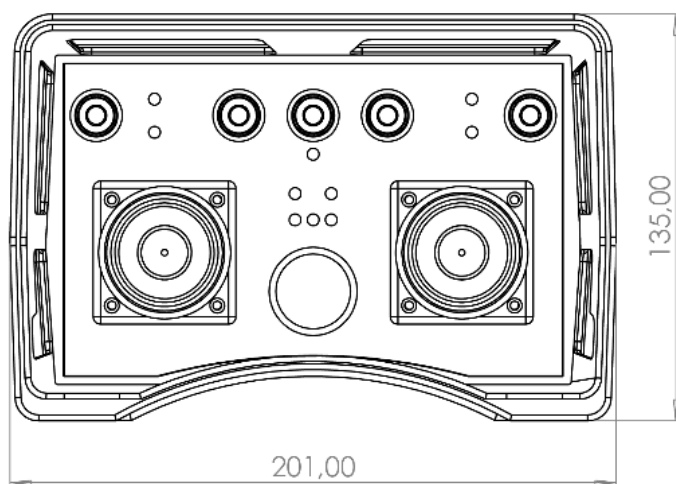
STANDARDS

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
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)

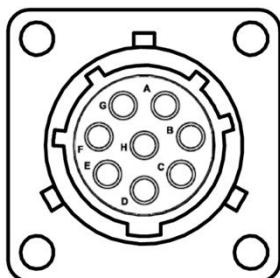


Sizes may change based on the controllers layout



CONNECTOR PINOUT

MAIN CONNECTOR



PIN DESCRIPTION

A	POSITIVE power supply
B	GND power supply
C	CAN H
D	CAN L
E	Dry contact (emergency button)
F	Dry contact (emergency button)

MATING CONNECTOR CODES

SOURIAU P/N: UTG608P and UT00128SH FPM



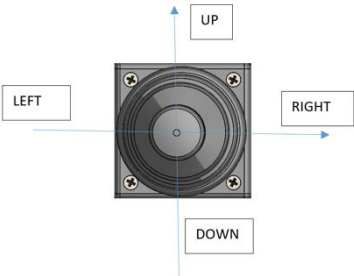
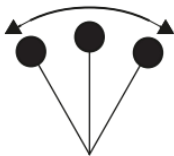
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AVAILABLE CONTROL ELEMENTS

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

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	

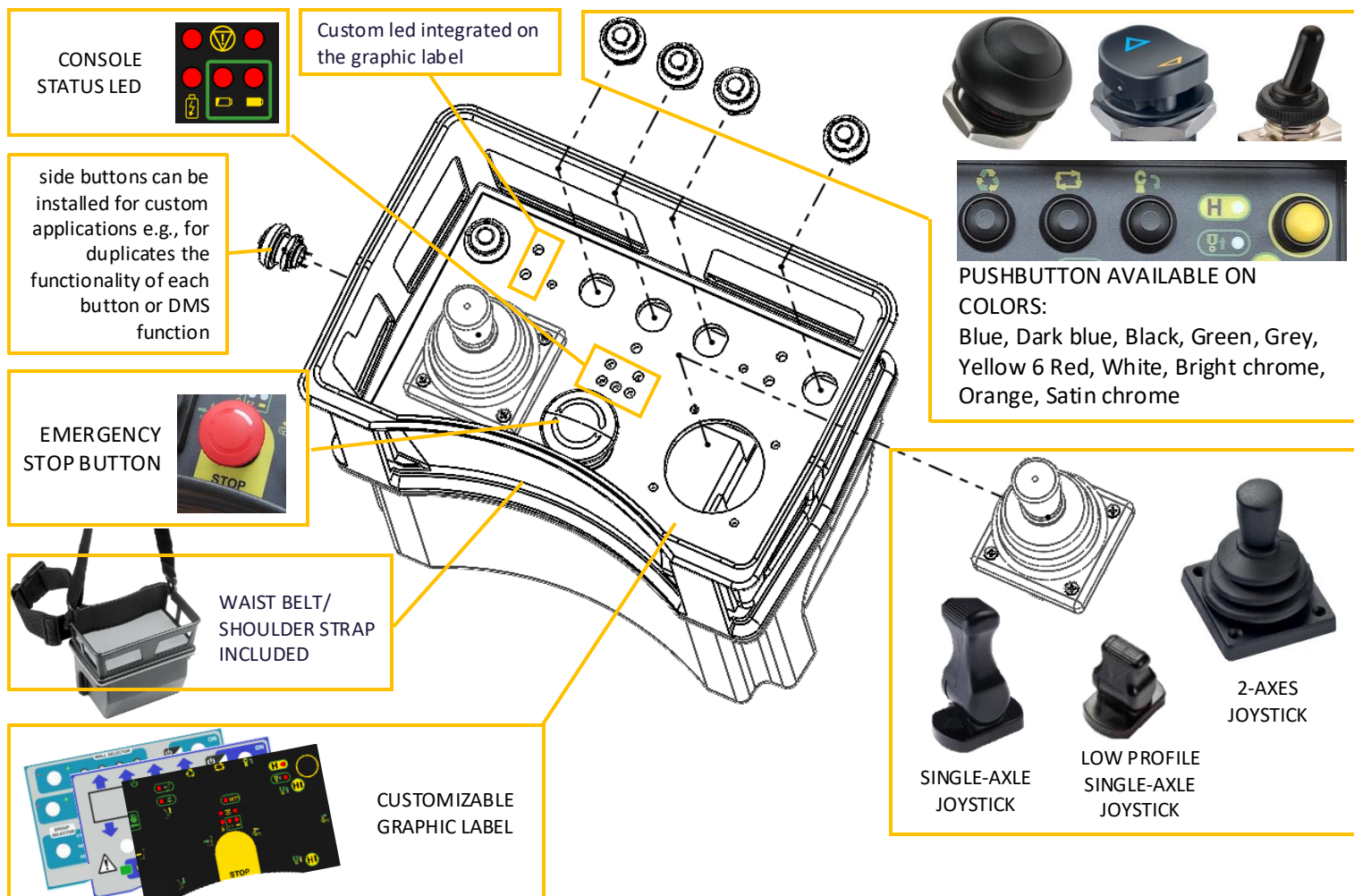


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CONNECTIONS

FULLY CUSTOMIZABLE





NOTE