AIR

Radiocontrols for automation, industrial lifting and operating machinery

autec®

AIR SERIES

Remote controls of the AIR Series are ideal for automation, industrial lifting and both operational and self-propelled machinery.

STRENGTHS

- Configurable dual-band radio with automatic frequency search at system start-up (freq. 434/915 MHz) or with completely automatic search in FHSS mode (freq. 870/915 MHz).
- System configuration through navigation menu or PC software.
- Data logger for recording of radio control operations.
- Connectivity through CANopen, Profibus, ProfiNet, EtherCat, EtherNet IP and serial interfaces for the control and communication of data.

SAFETY

Autec designs and produces industrial remote controls with a level of safety that meets even the strictest of standards. The most important aspects of the remote control (functional, electrical, environmental, radio) reflect state-of-the-art technology for both control and communication. The STOP function of AIR Series models has been certified by TÜV Rheinland as compliant up to PL e according to EN ISO 13849-1 and to SIL 3 according to EN IEC 62061. Radio frequency communication is made through a certified and proprietary Autec system which is suitable for safety-critical applications. Each remote system uses its own unique code which cannot be reproduced.


EC Type-Examination Certificate

FHSS RADIO COMMUNICATION

The system of data transmission and control is bi-directional, dual-band and is configurable by the user:

- with automatic frequency search at system start-up (434/915 MHz).
- with completely automatic search through FHSS technology - Frequency Hopping Spread Spectrum (870/915 MHz).

RELIABILITY

All electronic and mechanical parts are designed, manufactured and tested to withstand heavy use in adverse conditions (e.g. temperature extremes, shock & vibrations, substances such as oils, paints and thinners; even electromagnetic disturbance, dust and water). The AIR Series features casings with IP65 protection. 100% of the radio controls produced are subject to functional testing with specific equipment that ensures proper construction of each part that goes into an Autec system. An effective traceability system allows us to precisely identify the components and activities carried out through the production process to ensure the highest levels of safety and reliability.

FLEXIBILITY

One of the greatest strengths of the AIR Series is its flexibility. Each receiver can be paired with any transmitter in the series., according to the needs of the specific applications. In this way it is possibile to adapt to complex working situations, including the use of multiple machines, maintaining both high reliability and safety. Thanks to the wide configurability of available actuators and displays, the transmitting units can adapt to many application requirements. In addition, with all the different receivers available and the ability to insert additional cards into the expansion slots, the AIR Series offers high configurability and the ability to optimize the output interface with respect to the function required by the machine.

A4/A4B, A6/A6B, A8/A8B HANDHELDS

The AIR Series hand-held transmitters are light, compact and robust solutions, equipped with multi-function pushbuttons and a navigation menu to optimize functionality and settings according to the requested application. They are available in two versions:

- with internal Li-Ion battery (A4, A6, A8) rechargeable through Docking Station or Charger Plug;
- with two extractable external Li-Ion batteries (A4B, A6B, A8B), battery charger and power key switch kit for start-up which comes standard.

In both versions there is an “ID internal tx memory”, which contains the unique and univocal address of the radio remote control along with the information that defines its mode of use. They can be combined with any AIR Series receiving unit.

A4 / A4B

A6 / A6B

A8 / A8B

INTERNAL BATTERY

EXTERNAL BATTERY

STANDARD FEATURES

- Dual-band radio with automatic frequency search at start-up (434/915 MHz) with STOP function up to PL d (according to EN ISO 13849-1)
- Suitable for Multiple Systems
- Multi-function commands (latching, momentary, switch ”1, 1+2, 2”;” 1/2”)
- Work area 75-100 meters
- 4 data feedback LEDs to display machine status
- Data logger for recording of remote control operations
- PIN start-up: prevents unauthorized use
- Can be used while charging
- CAN Communication and serial ports

STANDARD ACCESSORIES

- Shoulder strap with cover
- Battery charger or Docking Station for recharge

OPTIONS

- Quick-Connect Charger Plug which can be used with a power bank and USB adaptor (only for internal battery version)
- Nest can be mounted to a wall to keep the unit safe when not is use

Shoulder strap with cover

Charger and battery

Docking Station

Charger Plug and Nest

LK NEO

The LK NEO transmitting unit was created and developed by Autec to give users a product with a modern, functional and optimized design. It was conceived and designed to provide a large set of functionalities available through a choice of actuators and configurations in a weight-balanced and highly ergonomic handset. LK NEO is available with 6, 8, 10 and 12 2-step pushbuttons. In addition, there are 2 other versions (6 or 10 buttons) with a customizable color display. It can be combined with all the AIR Series receiving units.

LK NEO 6

LK NEO 6 DF

LK NEO 8

LK NEO 10

LK NEO 10 DF

LK NEO 12

STANDARD FEATURES

- Dual-band FHSS Radio with completely automatic frequency search (870/915 MHz) with STOP function up to PL e, SIL 3 (according to EN ISO 13849-1/EN IEC 62061)
- Dual-band radio with automatic frequency search at start-up (434/915 MHz) with STOP function up to PL d (according to EN ISO 13849-1)
- Suitable for Multiple Systems
- Up to 12 pushbuttons
- Highly customizable with many options
- Work area up to 100 meters
- Customizable labeling
- Data logger for recording of remote control operations

STANDARD ACCESSORIES

- Shoulder strap with cover
- Easily-extractable NiMH or Li-Ion battery with charger

OPTIONS

- Extractable Key ID 0-1
- Extractable mechanical key (if Key ID 0-1 is not present)
- 2/3 position switch
- Rotative switch
- Potentiometer
- IR Sensor
- Zero-G Sensor
- 1.8” color display (with 6 or 10-button versions)
- External Buzzer
- Vibration alarm (only for display version)
- Enabling Switch
- Enabling & STOP Switch
- Cable Control

Shoulder Strap with Cover

Key ID 0-1

Enabling & STOP Switch

Potentiometer

JOYSTICK TRANSMITTING UNITS

AIR Series joystick versions are available in three different models: AJS, AJR and AJM. It is possible to have anywhere from 1 to 4 digital or analog joystick command functions. The standard NiMH battery is external and extractable for easy charging or replacement; display versions come with Li-Ion batteries.
Thanks to the user identification function through the extractable Key ID 0-1, it's possible to create individualized access for each user in order to avoid unauthorized use. Key ID 0-1 holds the unique address of the radio control which is not reproducible, along with the information that define the operating mode.

AJS

AJR

AJM

STANDARD FEATURES

- Dual-band radio with automatic frequency search at start-up (434/915 MHz) with STOP function up to PL d (according to EN ISO 13849-1)
- Suitable for Multiple Systems
- Extractable Key ID 0-1
- Work area up to 100 meters
- Customizable adhesive panel
- Up to 42 digital commands
- Up to 37 digital and 3 analog commands (including directional)
- Up to 28 digital and 6 analog commands (including directional)
- Visualization of machine status with either 4 or 16 LED lights
- AJS: 1 to 3 four-direction joysticks (Cross), up to 7 actuators plus START & STOP
- AJR: up to 3 four-direction joysticks with many actuators
- AJM: up to 4 four-direction joysticks with many actuators
- Data logger for recording of remote control operations

STANDARD ACCESSORIES

- Shoulder strap or waist belt
- Extractable battery NiMH or Li-Ion and charger

OPTIONS

- Cable Control
- Zero-G Sensor
- Aluminum Panel (for more difficult working environments)
- IR Sensor
- External Buzzer
- 1.54" Display (OLED)
- 2.7" Display (OLED or transflective)
- 4.3" Color Display (CODESYS programmable)
- Extractable mechanical key (if Key ID 0-1 is not present)

ACTUATORS

- Potentiometer
- Rotative switch
- Selector lever
- "Pull-up" selector switch
- Side button

Shoulder Strap

Waist Belt

Key ID 0-1

Cable Control

SIDEKICK

The SIDEKICK transmitting unit is safe, reliable and compact. It was conceived by Autec for applications with a limited number of actuators. The unit has bi-directional radio with an extended working range. SIDEKICK is very portable thanks to an ergonomic design, extremely reduced weight and an inclined control panel. It's configurable with selector levers, a rotary switch, potentiometer or a side button.

SK4

STANDARD FEATURES

- Dual-band FHSS Radio with completely automatic frequency search (870/915 MHz) with STOP function up to PL e, SIL 3 (according to EN ISO 13849-1/EN IEC 62061)
- Dual-band radio with automatic frequency search at start-up (434/915 MHz) with STOP function up to PL d (according to EN ISO 13849-1)
- Easy-to-replace internal Li-Ion battery
- Sensor that intervenes in case of non-movement, inclination, impact, bump or fall of the transmitting unit
- 4 data feedback LEDs to display machine status
- Data logger for recording of remote control operations
- PIN start-up: prevents unauthorized use
- CAN communication and serial ports
- ID internal tx memory

STANDARD ACCESSORIES

- Waist Belt
- Cable with USB connector and AC power or car jack, to recharge the battery

OPTIONS

- Pre-disposition actuator for emergency calls and intermittent brake for forestry applications
- Can be used while charging

ACTUATORS

- Potentiometer
- Rotative switch
- Selector lever
- "Pull-up" selector switch
- Button

Cable with USB connector for recharge

AC Power Supply with USB input

Car Jack with USB input

Waist Belt

DISPLAY

Thanks to bi-directional communication, always active, the information related to the status of the machine can be transmitted from the receiving unit to the transmitting unit and displayed on 4 LEDs and/or high-efficiency displays with 16 LEDs. LK NEO offers a 1.8” color display as an option on its 6 or 10 pushbutton versions; while marsupial units offer a display range from 1.54” OLED to 2.7” monochrome transflective. The most recent models offer 4.3” color displays, with CODESYS programming. Notifications can appear as icons, descriptions or measures, depending on the preferences set.

1.54” DISPLAY

- Available on the OLED monochrome version
- 128 x 64 pixels
- Can be used with the AJS transmitting unit
- Customizable reporting and icons

2.7” DISPLAY

- Available on the OLED version (indoors) and transflective monochrome (outdoors)
- 128 x 64 pixels
- Can be used with AJR and AJM
- Customizable reporting and icons
- 16 LEDs

1.8” COLOR DISPLAY

- 16 colors available
- 128 X 160 pixels
- Available on the 6 & 10-pushbutton versions
- Customizable reporting and icons
- Sunreadable: can be used indoors or outdoors

4.3” COLOR DISPLAY

- 256 colors available
- 480 x 272 pixels
- CODESYS programmable
- Can be used with AJR and AJM
- Customizable reporting and icons
- Sunreadable: can be used indoors or outdoors
- 16 LEDs

BATTERIES AND CHARGERS

LPM00 BATTERY
for A4B, A6B, A8B

- Li-Ion
- 3.7 V
- 660 mAh
- 2.44 Wh

MHM03 BATTERY
for LK NEO

- NiMH
- 3.6 V
- 500 mAh
- 1.8 Wh

LPM01 BATTERY
for LK NEO

- Li-Ion
- 3.7 V
- 1300 mAh
- 4.81 Wh

MBM06MH BATTERY
for standard joystick
transmitting units

- NiMH
- 7.2 V
- 750 mAh
- 5.4 Wh

LPM02 BATTERY
for standard joystick
transmitting units

- Li-Ion
- 7.4 V
- 1400 mAh
- 10.36 Wh

INFRARED SENSOR

Infrared (IR) is an option available for the AIR Series to delimit radiocontrol operation area when required under special working conditions. IR is composed of both an illuminator installed on the machine and a sensor installed on transmitting unit that receives infrared emission from the illuminator.

IR FEATURES:

- **Infrared start-up:** radiocontrol can only start within a bound area and prevents unintended start-up in unsafe areas.
- **Infrared range limiting:** allows operator to work only when infrared units are aligned within the operation range.

ZERO-G SENSOR

Zero-G Sensor may act for one or more of the following causes:

- **Impact, thrown, rolling:** Zero-G Sensor activates when the transmitting unit impacts with a movement or in case it is thrown or rolled;
- **Fall:** Zero-G Sensor activates when the transmitting unit falls from higher than 1 meter;
- **Tilt:** Zero-G Sensor activates when the transmitting unit is tilted at a defined angle to the ground.

CABLE CONTROL

Cable Control is an option available for AJS, AJR and AJM. It connects the transmitting unit via cable to the receiving unit by replacing the radioelectric link and it's used:

- in particular working conditions established by the Machine Manufacturer;
- when it is not possible to establish a radio link between radio remote control units;
- when working in environments where using radio frequencies is not allowed or is dangerous;
- when a battery is not available.

RECEIVING UNITS

HACRP8

MVRCAN

ACRS13-G/L
DCRS13

ACRM15
ACRM5E
DCRM24

MVRL9E

HACRP8

AC Power. With 7 programmable relays + START & STOP. Dedicated output for the enabling of commands. Integrated signal lights. Horn signal also an available option. Internal antenna comes standard.

MVRCAN

AC/DC power. I/O serial CANopen 2.0. Has 4 programmable relays + STOP. External antenna comes standard.

ACRS13-G/L

AC power. With 12 programmable relays + START/ STOP with either internal or optional external antenna. The ACRS13-G receiver is equipped with a replaceable power module and 4 inputs for Data Feedback, while the ACRS13-L is equipped with a fixed integrated power supply circuit.

DCRS13

DC power. With 12 programmable relays + START / STOP and with an internal or optional external antenna. Unit includes 4 inputs for Data Feedback.

ACRM15

AC power. With 14 programmable relays + START and STOP, internal antenna standard or optional external antenna, 4 inputs for Data Feedback.
2 expansion slots are available for optional boards.

ACRM5E

AC power. Comes with a number of configurable outputs, internal antenna standard or optional external antenna, 16 inputs for Data Feedback.
5 expansion slots are available for optional boards.

DCRM24

DC power. With 21 programmable MOSFET digital outputs + 2 relays + START and STOP, internal antenna standard or optional external antenna, 8 inputs for Data Feedback.
2 expansion slots are available for optional boards.

MVRL9E

AC power. Comes with a number of configurable outputs, internal antenna standard or optional external antenna, 16 inputs for Data Feedback.
9 expansion slots are available for optional boards.

OPTIONAL BOARDS

AirRIR05A

- 5 relays, contacts 10A, 250 VAC N.O. / N.C.
- Connector with spring terminals
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIR08A

- 8 relays, 6A contacts, 250 VAC N.O.
- Connector with spring terminals
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIR08G

- 8 relays, contacts for low load switching 1A, 250 VAC N.O.
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIV06A

- 6 analog outputs - voltage (0÷10 V, -10 +10 V) or current-loop (0÷20 mA)
- Removable memory card
- Set up of the parameters is remote-programmable or through micro SD
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIC06A

- 12 analog outputs - PWM (0÷2 A)
- Removable memory card
- Set up of the parameters is remote-programmable or through micro SD
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRID06A

- 6 adjustable analog outputs - voltage (0÷28 V)
- Removable memory card
- Set up of the parameters is remote-programmable or through micro SD
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIAMIA

- 4 analog inputs (0÷10 VDC o 0.20 mA), load cells, pulse counter and RS 232/485 serial interface
- Removable memory card
- Set up of the parameters is remote-programmable or through micro SD
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIP01A

- Board with variable resistive output (0÷10 kΩ)
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRISYNA

- Synchro communication interface board between multi-unit system receivers
- Depending on its programming and the electrical state of the digital inputs of selected receivers, this card can condition the outputs of the receiving units.
- Removable memory card
- Set up of the parameters is programmable through micro SD
- Suitable with receiving units: ACRM5E, MVRL9E.

AirRIPRFA

- Profibus DP communication interface board
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRICANB

- CANopen 2.0 A communication interface board
- Removable memory card
- Can also be programmed to communicate with a customized CANopen
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIPRFN

- Profinet IO interface board
- Supports PROFINET-RT and IRT (specific 2.3)
- Supports re-mapping of process data
- Connection with 2 x RJ45 or 2 x M8
- GSD file of device description
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

AirRIETHC

- EtherCAT interface board (slave interface)
- Supports re-mapping of process data
- Connection with 2 x RJ45 or 2 x M8
- ESI file of device description
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

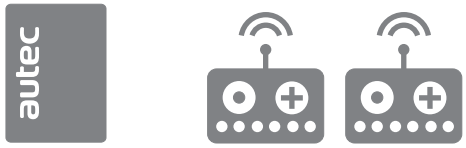
AirRIETHN

- EtherNet/IP interface board (slave interface)
- Supports re-mapping of process data
- Connection with 2 x RJ45 or 2 x M8
- EDS file of device description
- Suitable with receiving units: ACRM15, DCRM24, ACRM5E, MVRL9E.

MULTIPLE SYSTEMS

Autec's AIR Series can also offer solutions for multi-unit systems; that is, for remote systems that involve either more than one receiver or transmitter.

MULTIPLE TRANSMITTER SYSTEMS



The multiple transmitter system (i.e. "Take & Release") is comprised of more than one portable transmitting unit (up to 15) from which multiple operators can remotely control a single machine by taking control of the receiver on the machine itself. In order for a transmitter to assume ("TAKE") control of the machine, a previous operator must "RELEASE" the machine.

MULTIPLE RECEIVER SYSTEMS

A multiple-receiver system is one in which a single transmitter can control multiple receivers. This is an effective way to manage equipment costs when the same operator handles a number of machines.

Line up link: Up to 4 receivers. In case a transmitter loses connection with one of the receivers, the others in the line-up sequence will all STOP as well.
Independent dual link: Up to four receivers. In case the transmitter loses connection with a receiver, only the machine with the lost connection will STOP operation. The other machines will continue to work "independently".
Independent multiple link: From 5 to 15 receivers in simultaneous use. In case of connection loss between a receiver and the transmitter, only the machine(s) with lost connection will not function. Others connected will continue to function.
One to one link: From 2 to 15 receiving units. The transmitting unit can select and control only one receiver at a time.

MULTIPLE UNIT SYSTEMS

A multiple-unit system involves from 2 to 4 receiving units and between 2 and 4 transmitting units. This is also known as a "pooled-resource system", where multiple users can control multiple machines across multiple shifts - even multiple jobsites. The same remote can control multiple machines, and each machine can be controlled by up to four transmitters, but each machine can only be controlled by a single transmitter at a time.

TECHNICAL DATA

GENERAL		
Frequency Band	433.05 – 434.79 (64 channels) / 915-928 MHz (255 channels) / 863-870 MHz (128 channels, with FHSS radio communication)	
Hamming Distance	≥ 9	
Typical Working Range	75-100 m	240-330 ft
Safety performance of the STOP function	up to PL e (EN ISO 13849-1)	
Protection Degree	IP 65 (NEMA 4)	
Operating Temperature	transmitting units: (-20°C) ÷ (+55°C) receiving units: (-20°C) ÷ (+70°C)	(-4°F) ÷ (+130°F) (-4°F) ÷ (+158°F)
Storage Temperature	transmitting units: (-40°C) ÷ (+70°C) receiving units: (-40°C) ÷ (+80°C)	(-40°F) ÷ (+158°F) (-40°F) ÷ (+176°F)

TRANSMITTING UNITS

A4, A6, A8 and A4B, A6B, A8B HANDHELDS		
Autonomy with full battery at 20°C (68°F)	40 h with internal Li-ion battery (A4, A6, A8) 16 h with external Li-ion battery (A4B, A6B, A8B)	
Dimensions	64.5x179x37.5 mm	2.54x7.05x1.48 in
Weight	250 g	0.55 lb

LK NEO HANDHELDS		
Autonomy with full battery at 20°C (68°F)	> 16 h with Li-ion battery without display > 10 h with Li-ion battery and 1.8” display > 10 h with NiMH battery	
Dimensions	**LK NEO 6-8:** 207.5x85x49 mm **LK NEO 10-12:** 265x85x49 mm	8.17x3.35x1.92 in 10.43x3.35x1.92 in
Weight	**LK NEO 6-8:** 380 g **LK NEO 10-12:** 450 g	0.837 lb 0.992 lb

AJS, AJR, AJM JOYSTICK TRANSMITTING UNITS		
Autonomy with full battery at 20°C (68°F)	40 h with Li-ion battery without display 20 h with Li-ion battery and 1.54” or 2.7” display 8 h with Li-ion battery and 4.3” display 20 h with NiMH battery	
Dimensions	**AJS:** 258x170x126 mm **AJR:** 260x200x190 mm **AJM:** 310x210x190 mm	10.20x7.00x5.00 in 10.20x7.90x7.50 in 12.20x8.30x7.50 in
Weight	**AJS:** 1.3 kg **AJR:** 2.0 kg **AJM:** 2.5 kg	3.0 lb 4.4 lb 5.5 lb

SIDEKICK SK4		
Autonomy with full battery at 20°C (68°F)	> 16 h with Li-ion battery	
Typical Working Range	100 m	330 ft
Selector lever	military standard MIL-83731	
Dimensions	138x118x60 mm	5.43x4.65x2.36 in
Weight	450 g	0.992 lb

RECEIVING UNITS

ACRS13 G/L and DCRS13		
Power supply	ACRS13G/L: 45-230 VAC	DCRS13: 12-24 VDC
Antenna	Internal, external optional	
Maximum number of outputs	12 on / off + START and STOP	
Rated load of STOP/Safety functions	4A (250 VAC)	
Commands rated current	6A (250 VAC)	
Cabling	Cable gland,16-pin reduced plug	
Dimensions	123x258x83 mm	4.84x10.16x3.27 in
Weight	1.2 kg	2.7 lb

HACRP8		
Power supply	45-400 VAC	
Antenna	Internal	
Maximum number of outputs	7 on / off + START and STOP	
Rated load of STOP/Safety functions	4A (250 VAC)	
Commands rated current	4A (250 VAC)	
Cabling	Cable gland,10-pin reduced plug	
Dimensions	144x162x63 mm	5.67x6.38x2.48 in
Weight	650 g	1.43 lb

MVRCAN		
Power supply	12-24 VDC	24 VAC
Antenna	External, internal optional	
I/O serial	CAN Open 2.0	
Rated load of STOP/Safety functions	6A (30 VDC)	
Commands rated current	4A (30 VDC)	
Cabling	10-pin reduced plug	
Dimensions	144x162x63 mm	5.67x6.38x2.48 in
Weight	650 g	1.43 lb

ACRM15		
Power supply	45-230 VAC	
Antenna	Internal, external optional	
Maximum number of outputs	30 on / off + START and STOP	
Rated load of STOP/Safety functions	4A (250 VAC)	
Commands rated current	6A (250 VAC)	
Cabling	Cable gland, 24 or 32-pin plug	
Dimensions	185x287x105 mm	7.28x11.30x4.13 in
Weight	2.2 kg	4.9 lb

DCRM24		
Power supply	12-24 VDC	
Antenna	Internal, external optional	
Maximum number of outputs	39 on / off + START and STOP	
Rated load of STOP/Safety functions	STOP: 6A (30 VDC)	Safety: 10A (30 VDC)
Commands rated current	4A (30VDC) MOSFET, 10A (30VDC)	relays
Cabling	Cable gland, 24 or 32-pin plug	
Dimensions	185x287x105 mm	7.28x11.30x4.13 in
Weight	2.2 kg	4.9 lb

ACRM5E		
Power supply	24-230 VAC	
Antenna	Internal, external optional	
Maximum number of outputs	40 on / off + START and STOP	
Rated load of STOP/Safety functions	STOP: 6A (250 VAC)	Safety: 10A (250 VAC)
Commands rated current	6/10A (250 VAC)	
Cabling	Cable gland, 24 or 32-pin plug	
Dimensions	185x287x105 mm	7.28x11.30x4.13 in
Weight	2.2 kg	4.9 lb

MVRL9E		
Power supply	24-230 VAC	12-24 VDC
Antenna	External, internal optional	
Maximum number of outputs	71 on / off + START and STOP	
Rated load of STOP/Safety functions	STOP: 6A (250 VAC)	Safety: 10A (250 VAC)
Commands rated current	6/10A (250 VAC)	
Cabling	Cable gland, 24 or 32-pin plug	
Dimensions	250x343x110 mm	9.84x13.50x4.33 in
Weight	4.5 kg	9.92 lb

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