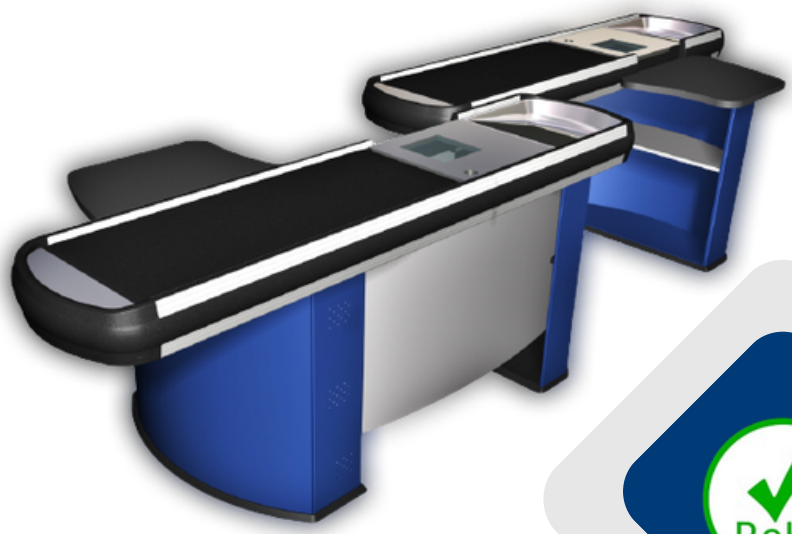
ARMESAN
ELEKTRONIK



CE

RoHS

PRODUCT CATALOG

EN

2026

Armesan control units developed for checkout conveyor systems provide high durability, reliable operation, and long service life.

ARM-25 V2

Our next-generation electronic device, designed with a metal enclosure, emergency stop button, and dual fuse protection, is equipped with an isolated power supply system to ensure maximum safety and protection. This innovative architecture safeguards the device against external disturbances and enables secure and reliable operation.

All materials used in the internal design of the device have been carefully selected and processed in compliance with CE standards. As a result, the unit offers long service life and maintains high performance even under demanding operating conditions. It is manufactured to operate reliably and continuously in harsh industrial environments.

With its robust construction and high-quality standards, our device is engineered to meet user requirements at the highest level of safety, durability, and reliability.

About Product

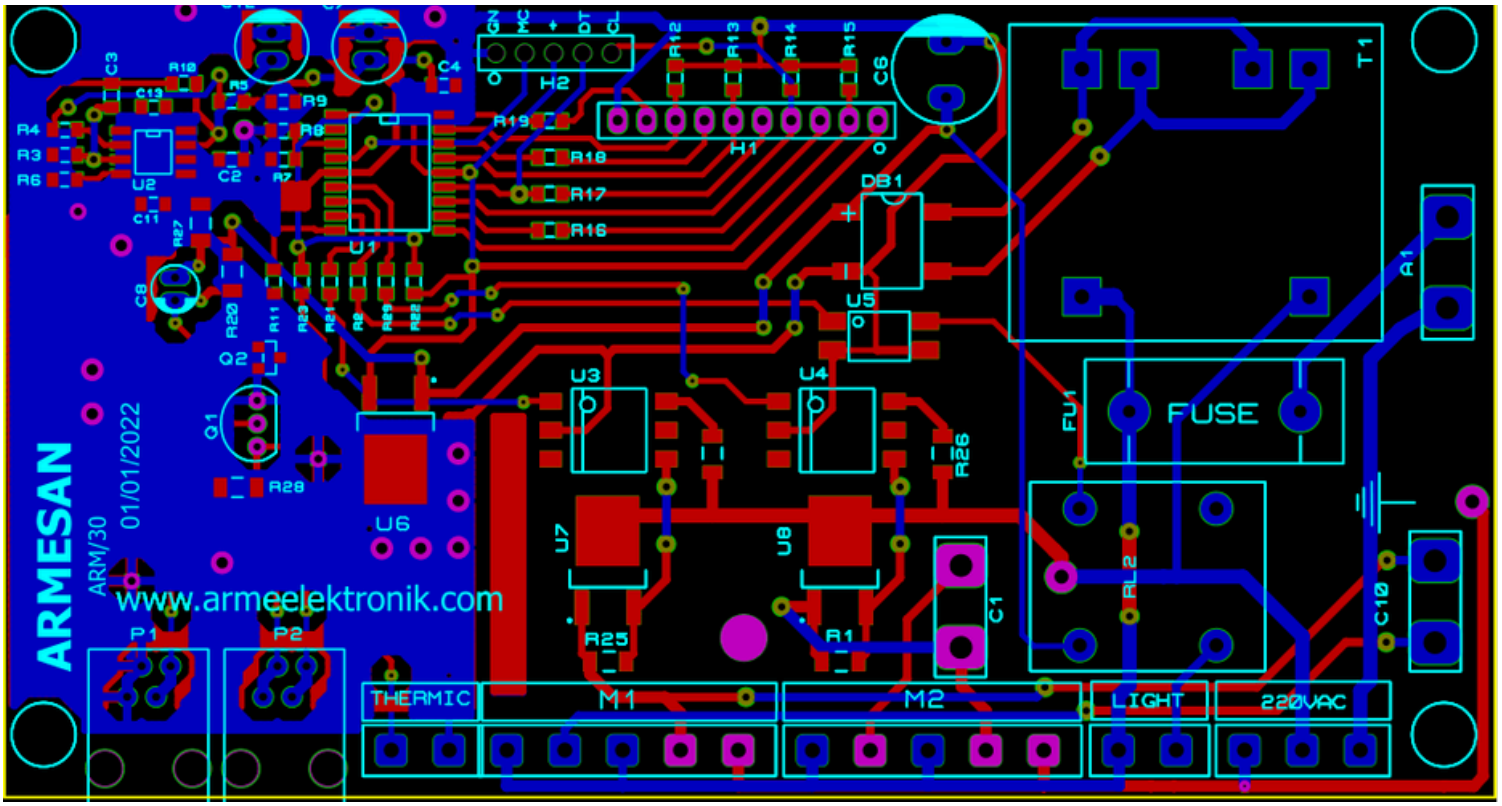
This electronic device has been designed and manufactured in accordance with the requirements of the European Union CE marking and the RoHS (Restriction of Hazardous Substances) Directive. The product structure avoids the use of hazardous substances such as lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE; environmentally responsible and health-safe components have been selected accordingly.

During the design and manufacturing processes, electrical safety, electromagnetic compatibility (EMC), and technical requirements for industrial operating conditions have been carefully considered, and quality and traceability criteria have been implemented.

Through this approach, the product provides a long service life, reliable performance, and a compliant electronic solution suitable for use in international markets.

MICROPROCESSOR DESIGN

The control functions of the device are performed by a microprocessor-based electronic control system programmed in accordance with industrial operating conditions. Thanks to the microprocessor-controlled architecture, input–output management, timing, protection, and operational sequences are executed with high accuracy and stability.
The embedded software architecture is optimized to ensure reliable operation, fast response time, and long-term stable performance. This technology enables precise control, safe operation, and efficient performance in checkout conveyor belt systems.

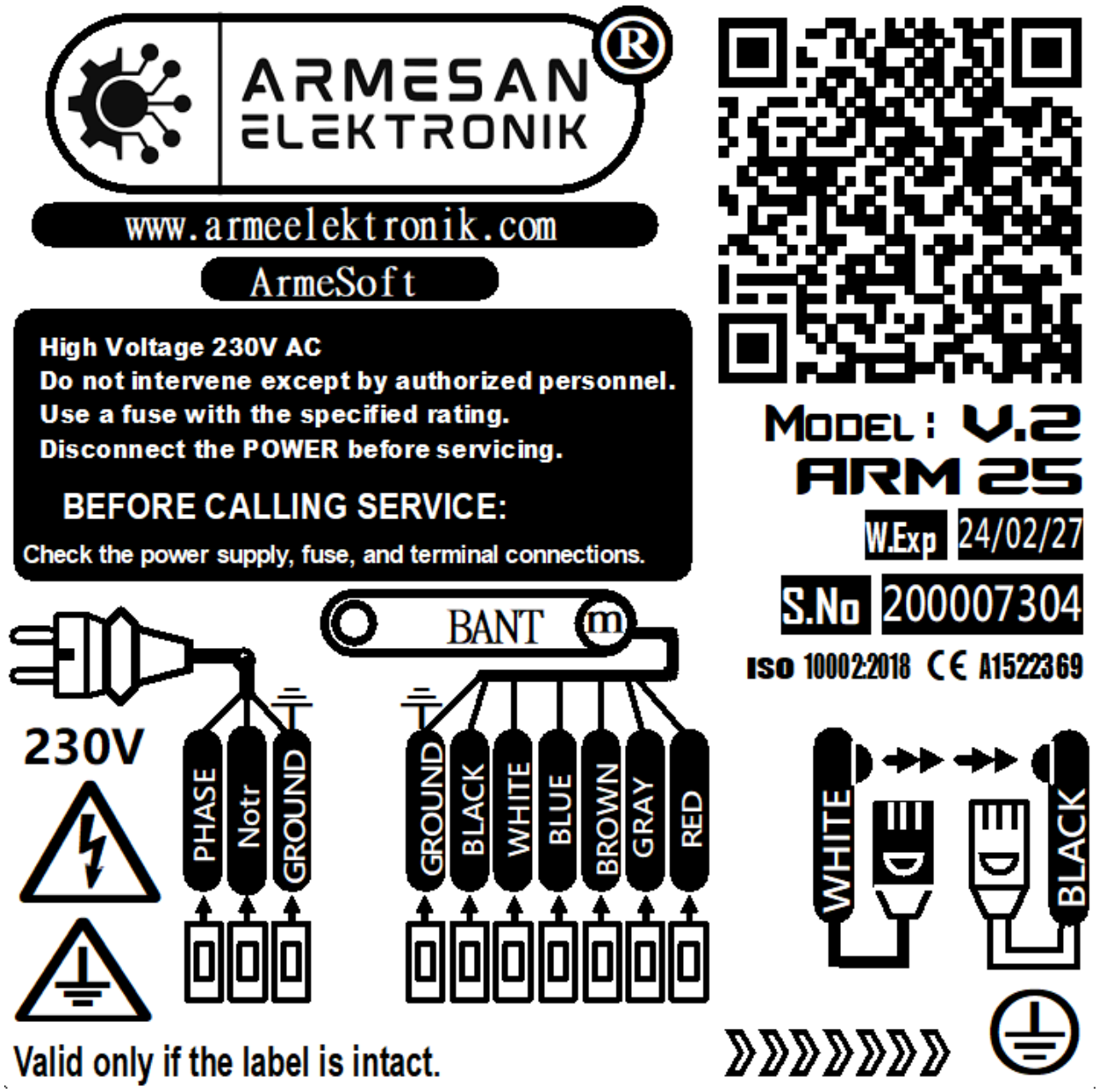


CONVEYOR MOTOR

THE INTERROLL 113C DRUM MOTOR IS A COMPACT, MAINTENANCE-FREE INTEGRATED DRIVE SOLUTION DEVELOPED FOR LIGHT-DUTY CONVEYOR SYSTEMS. IT PROVIDES HIGH RELIABILITY AND LOW-NOISE OPERATION IN SUPERMARKET CHECKOUT CONVEYORS, RECYCLING SYSTEMS, AND LOW-LOAD CONVEYOR APPLICATIONS. THE MOTOR DELIVERS DIRECT DRIVE WITHOUT THE NEED FOR EXTERNAL TRANSMISSION COMPONENTS, THANKS TO ITS ASYNCHRONOUS AC MOTOR INTEGRATED INSIDE THE DRUM SHELL AND TECHNO-POLYMER PLANETARY GEARBOX.

THE SEALED CONSTRUCTION WITH IP64 PROTECTION RATING ENSURES LONG SERVICE LIFE AND SAFE OPERATION IN INDUSTRIAL ENVIRONMENTS. THE THERMAL PROTECTION SWITCH SAFEGUARDS THE MOTOR AGAINST OVERHEATING, WHILE LOW NOISE AND VIBRATION-FREE OPERATION IMPROVE OPERATOR COMFORT. WITH VARIOUS DRUM LENGTHS AND CONNECTION OPTIONS, IT CAN BE EASILY INTEGRATED INTO DIFFERENT CHECKOUT AND LIGHT-DUTY CONVEYOR SYSTEMS.

WITH ITS COMPACT DESIGN, HIGH EFFICIENCY, REVERSIBLE OPERATION CAPABILITY, AND LIFETIME-LUBRICATED GEARBOX SYSTEM, THE DRUM MOTOR PROVIDES AN IDEAL DRIVE SOLUTION FOR RETAIL AND LIGHT INDUSTRIAL CONVEYOR APPLICATIONS.



CONNECTION DIAGRAM

The device is powered by a 230 V AC mains supply. Phase, neutral, and protective earth conductors must be correctly connected to the designated terminals. At the conveyor belt motor output terminals, color-coded conductors (black, white, blue, brown, and grey) together with the protective earth line are assigned for motor phase and control connections.

Sensor inputs for the transmitter (TX) and receiver (RX) units are connected via RJ45 (4P4C) sockets. All wiring must be carried out with the power disconnected and under appropriate fuse protection.

By scanning the QR code on the product, the device serial number, manufacturing information, warranty status, and technical documentation can be accessed. The QR system enables fast and secure product verification, service tracking, and access to up-to-date technical information.

WORKING FEATURE

Start Button
The Start button is used to initiate the system in either automatic or manual operating mode.

Automatic Operation (Auto) Button
The Auto button is used to switch the system to automatic operating mode.
In automatic mode, if no object is present in the photocell detection area, the checkout conveyor belt runs for approximately 30 seconds and then enters standby mode.
In standby mode, the AUTO LED flashes (blinks).
To reactivate the system, an object must enter the photocell detection area.

Manual Operation (Manual) Button
The Manual button switches the system to manual operating mode and allows the operator to control the conveyor belt directly.
When the Manual button is pressed once, the checkout conveyor belt runs for approximately 30 seconds until a product arrives. If the button is kept pressed, the conveyor belt continues to run even if an object is present in front of the sensor.
The system stops automatically when photocell detection occurs or after approximately 30 seconds.

Call Button
The Call button controls the customer call indicator lamp.
When pressed once, the lamp remains continuously ON, indicating that the checkout unit is active.

Status and Fault Indicators
Power LED:
Indicates that supply voltage is applied to the control panel.
Thermal Protection:
The On/Off, Call, Auto, and Manual LEDs flash continuously to indicate a thermal protection or fault condition.
Auto LED:
Indicates the detection status of the transmitter–receiver photocell system.
Under normal operation, it flashes (blinks).
It becomes active when the photocell light path is interrupted.
Transparent or semi-transparent objects may transmit infrared light and can therefore be detected by the photocell.

Protective Earthing
A protective earth conductor exits the control panel and is connected to four different points on the checkout frame.
The grounding connection is provided via a 1 × 2 mm conductor, approximately 600 mm in length, connected to the installation earth line.

KEYPAD	MEMBRAN SWITCH
INSTRUMENT PANEL	SMD LED
EMERGENCY BUTTON	ON/OFF 220V / 10 Amp. Button
ASSEMBLY METHOD	KLEMENS
RAW MATERIALS	1 mm. SHEET METAL PANEL
SUPPLY VOLTAGE	220 V / 110 V (OPTIONAL) +%10 -%20 50-60 Hz.
FUSE	2.5 Amp.
SCALE DETECTION DISTANCE	0.1mm. - 3000 mm.
SENSOR SOCKET	RJ45 4P4C
POWER SUPPLY AND MOTOR SOCKET	5.08 mm. 10 Amp. Klemens Soket
TEMPERATURE COMPENSATION	-20 / +50 C.
POWER CONSUMPTION	0,4 W
OPERATING SYSTEM	MICROPROCESSOR
DATA PROTECTION	EEPROM
DISPLAY INDICATOR	LED
LED STATUS INDICATOR	SMD LED
BUTTON VISUAL FEATURE	INTERNALLY ILLUMINATED ANIMATED
BUTTON PROGRAMMING FEATURE	ON/OFF - CALL - AUTO - MANUEL
PROTECTION FEATURE	MOTOR THERMAL DETECTION
MOTOR	ISOLATED TRIAC 600V / 12A
LAMBA	RELAY CONTACT OUTPUT (OPTIONAL)

CE COMPLIANCE

ISO 9001:2015

ISO 14001:2015

CE DECLARATION OF CONFORMITY

ISO 10002:2018

ISO 45001:2018

ISO 10002:2018

ISO 45001:2018