Installation- and Operating Instructions
Interroll End stop
RM 8811
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Introduction

Notes about working with the installation and operating instructions
The Interroll Endstopp RM 8811 is generally referred to as "module" in this document.

Contents of these installation and operating instructions
These installation and operating instructions contain important notes and information about the various operating phases of the module:
- Transport, assembly and startup
- Safe operation, required maintenance tasks, removal of any faults
- Spare parts, supplementary accessories

Integrated part of the product
The installation and operating instructions describe the module at the time of its initial delivery after manufacturing.

In addition to this manual, special contractual agreements and technical documents apply to special versions of the module and its additional equipment.

Installation and operating instructions are part of the module
- To ensure trouble-free and safe operation as well as the settlement of possible warranty claims, always read these installation and operating instructions first and observe all the information contained herein.
- Keep the installation and operating instructions close to the module.
- Pass the installation and operating instructions on to any subsequent operator or occupant.

Interroll does not accept any liability for faults or defects due to non-observance of these installation and operating instructions.

If you have any questions after reading the installation and operating instructions, please contact the Interroll customer service. Contact persons close to you can be found on the Internet under: www.interroll.com/contacts.
Introduction

Warning notices in this document

The warning notices refer to risks which may arise while using the module. They are available in four danger levels identified by the signal word:

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANGER</td>
<td>Identifies a danger with high risk that can lead to death or serious injury if it is not avoided.</td>
</tr>
<tr>
<td>WARNING</td>
<td>Identifies a danger with medium risk that can lead to death or serious injury if it is not avoided.</td>
</tr>
<tr>
<td>CAUTION</td>
<td>Identifies a danger with low risk that can lead to minor or medium injury if it is not avoided.</td>
</tr>
<tr>
<td>NOTICE</td>
<td>Identifies a danger that can lead to property damages.</td>
</tr>
</tbody>
</table>

Symbols

This symbol marks useful and important information

Requirement:

☑️ This symbol represents a prerequisite to be met prior to assembly and maintenance work

➤ This symbol marks the steps to be carried out
Safety

State of the art
The module has been built to comply with the state of the art. Nevertheless, users may encounter hazards during its use.

Disregarding the notices in this manual may lead to serious injury

- Carefully read the manual and follow its content

Intended use
The module may only be used for industrial applications and in an industrial environment to convey roller conveyor-ready goods such as small packages, cartons or boxes.

The module is an incomplete machine and must be integrated into a complete system prior to operation.

Field of use
The module is dimensioned only for a certain field of use (see Technical Data) and may not be operated outside of these specific limits.

Any other use is considered inappropriate. Deviating operating conditions require additional clarifications, a special release of the module and new contractual agreements

Changes to the module
Any modifications that affect the safety are not permitted

Personnel qualification
Unqualified personnel cannot recognize risks and, as a result, is subject to greater dangers

- Authorize only qualified personnel with the activities described in these operating instructions.
- The operating company must ensure that the personnel follows locally applicable regulations and rules during their work with regard to safety and dangers

The following target groups are addressed in these operating instructions:

Operators
Operators have been instructed in the operation and cleaning of the module and follow the safety guidelines.

Service personnel
The service personnel features a technical training and performs the maintenance and repair tasks.
Safety

Dangers

The following list informs you about the various types of danger or damage that may occur while working with the module.

Safety devices
- Perform any maintenance and repair work on the module only in de-energized state and ensure that it cannot be started accidentally.
- In the passage area of persons or if persons can reach between transported materials, additional protective measures may apply.
- Do not remove protective covers or housing.
- Regularly check the safety devices.

Rotating parts
- Never wear loose clothing.
- Never wear jewelry, such as necklaces or bracelets.
- If you have long hair, always wear a hair net.

Parts lying around or falling off
- Remove equipment or material which is not required from the workspace.
- Wear safety shoes.
- Specify and monitor careful placement of the goods on the conveyor

Risk of injury due to faults during operation
- Regularly check the module for visible damage.
- Immediately shut down the module and ensure that it cannot be started accidentally in case of:
  - fire vapors, unusual, noise, blocked or defective conveyor belt, defective supports, side guides or accessory devices, unauthorized removal of safety covers and with a defective suspension.
- Immediately determine the cause of the fault by qualified personnel.
- Immediately remove any escaping gear oil.
- Do not step on the module during operation.

Maintenance intervals
- Regularly perform maintenance and inspection work.
- Use only OEM spare parts.

Interfaces to other devices
New hazardous positions may occur while integrating the module into a complete system. These positions are not part of this manual and have to be analyzed during the assembly and startup of the complete system
- When combining the module with other modules or machinery, check for new hazards before startup. In particular, observe the infeed point at the deflection shaft.
- Additional constructive measures may be required.
Safety

**Operating modes**

**Normal mode**
The module is installed at the customer in a complete system and operated as part of the system.

**Special mode**
Special operation refers to all operating modes which are required to guarantee and maintain regular operation.

<table>
<thead>
<tr>
<th>Special operating mode</th>
<th>Explanation</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport/Storage</td>
<td>Loading and unloading, transport and storage</td>
<td></td>
</tr>
<tr>
<td>Assembly/Initial start-up</td>
<td>Installation at the end customer and performing the test run</td>
<td></td>
</tr>
<tr>
<td>Cleaning</td>
<td>External cleaning without removing protective devices</td>
<td>When de-energized</td>
</tr>
<tr>
<td>Maintenance/Repairs</td>
<td>Maintenance and inspection tasks</td>
<td>When de-energized</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>Troubleshooting in the event of a fault</td>
<td></td>
</tr>
<tr>
<td>Fault elimination</td>
<td>Eliminating the fault</td>
<td>When de-energized</td>
</tr>
<tr>
<td>Shutdown</td>
<td>Removing from the complete system</td>
<td>When de-energized</td>
</tr>
<tr>
<td>Disposal</td>
<td>Removing from the complete system and disassembly</td>
<td>When de-energized</td>
</tr>
</tbody>
</table>
Product identification

End stop RM 8811

Components

1. Frame
2. Cover
3. End cap
4. Fastening angle

Property
The end stop is a permanently mounted attachment, for stopping and accumulating of approaching material. The end stop is used at the end of sloped or friction roller conveyors, or as a secure termination of all other conveyor lines.
Product identification

Technical Data

<table>
<thead>
<tr>
<th>End stop RM 8811</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. accumulation pressure</td>
</tr>
</tbody>
</table>

Scope of supply

The End stop is completely assembled in its delivery state. The scope of supply includes:

- End stop
- Fastening material
Product identification

Nameplate

The information on the nameplate is used to identify the conveyor. The type designation is required to use the conveyor according to its intended use.

The nameplate is located in the frame.
Transport and storage

Transport

⚠️ WARNING

Risk of injury during transport

- Fix the module securely and slip-proof for the transport.
- Ensure that the lifting device (crane, fork lift, etc.) is rated for the weight of the module.
- Ensure that no persons are located under the suspended load while lifting and moving the module.

Additional information about the transport are located on an information sheet that accompanies the motor.

- Data about weight and requirements for loading capacity and lifting tackle are located on the information sheet.
- Remove any persons from the danger zone.
- Wear safety shoes.
- Check the correct fastening for the transport.

The load lifting points are marked on the packet.

If the module is mounted to a conveyor module, the load lifting points are marked on the conveyor module.

Identification of load lifting points

After the delivery

- Inspect module for transport damages.
- Immediately notify the carrier and manufacturer in case of damages to avoid losing any claims for compensation.
Storage

⚠️ WARNING

Risk of injury due to improper storage

- Do not stack modules. Do not place any other objects on the module.
- Check module for stability

- If the module is not immediately placed in operation, store it at a location protected against humidity and dust.
Installation

⚠️ WARNING

Risk of injury due to improper assembly

- Mechanical assembly tasks should be performed only by service personnel. Observe the safety information.

The module is delivered to the location site as a pre-assembled unit and only has to be combined with a roller conveyor and integrated into a system on site.

To be observed during installation

Torque
When tightening screws and nuts, always observe the standard tightening torque, unless specifically indicated otherwise. Standard screw lockers should be replaced as needed.

Anchoring
- Anchor or fasten the module torsion-free, e.g. to the floor or adjacent components.

Integration into complete system
- When integrating the module into the complete system, consider possible danger spots, particularly infeed locations and interfaces.
Installing the End stop to the conveyor

- The End stop is fixed to the side profiles of the conveyor by four rip screws and rip nuts.

![Diagram showing the End stop installation]

⚠️ WARNING

Risk of injury due to entanglement

- Cut the belt which drives the last roller to eliminate entanglement hazard.

Possibly, the last role at the end of the conveyor module may need to be dismantled to install the end stop.

In some cases, the support at the end of the conveyor module has to be moved slightly to install the end stop.
Installing side cover and end caps

- Snap side cover into the C-profile of the side frame.
- Push end caps into the C-profile of the side frame.
Initial startup and operation

Initial startup

⚠️ WARNING
Risk of injuries due to incorrect handling
- Check electrical connections and protective devices.
- Remove the materials from the module.
- Remove unauthorized persons from the danger zone.
- Wear safety shoes and work clothing.

The module has been checked at the factory

Operation

Before every operation start
- Check the module for visible damage.
- Ensure that all safety devices operate flawlessly.
- Ensure that only authorized personnel is in the operating area of the module.
- Remove material or equipment which is not required from the workspace.
- Guide and monitor correct placement of the materials on the conveyor.

During operation

⚠️ WARNING
Danger from rotating parts
Crushing and serious injuries from parts of the body and clothing being pulled into the module!
- Do not remove the protective covers.
- Wear close-fitting clothing, avoid jewelry and bands/ribbons.
- If you have long hair, always wear a hair net.

- If materials are jammed between side guides, switch off the module and ensure that it cannot be started accidentally, then remove the fault.

Procedure in case of accident or fault
- Stop the module and ensure that it cannot be started accidentally.
- In case of an accident: Render first aid and make an emergency call if necessary.
- Inform qualified personnel.
- Have the fault removed by qualified personnel.
- Restart the module only after this has been approved by qualified personnel.
Cleaning

⚠️ WARNING

Risk of injuries due to incorrect handling

- Only perform cleaning work on the module after you have switched off the power. Switch off the voltage supply and ensure that it cannot be started accidentally.
- Do not remove protective devices.
- Wear safety shoes and close-fitting work clothing.

- Use only suitable cleaning agents (water-soluble, free of phosphate, silicone and potassium, non-acidic). Observe the manufacturer’s instructions.
Maintenance and repair

Observe the following for maintenance and repair

⚠️ WARNING

Risk of crushing and injuries

- Ensure that the personnel involved in maintenance and repair have secure footing and sufficient room to move.
- Mechanical maintenance and repair work may only be performed by service personnel. Observe the safety information.
- Observe the weight of the module (see nameplate); if necessary work in pairs.
- Use suitable loading and lifting equipment. Secure the module against falling or tipping.

When tightening screws and nuts, always observe the standard tightening torque, unless specifically indicated otherwise. Standard screw lockers should be replaced as needed.

- Set up warning signs that indicate maintenance and repair work.
- Block off the area around the module.
- Inform persons who have to enter the blocked-off area about the risks.
Replacing the cover

- Carefully pry out the cover out of the C-profile at one end using a tool (e.g. screwdriver).
- Starting at this point, loosen the complete cover from the C-profile.
- Snap new cover into the C-profile of the frame.

Replacing the end caps

- Remove end caps from the C-profile using a tool (e.g. screwdriver).
- Push the new end caps into the C-profile of the frame.
## Maintenance and repair

### Maintenance intervals

If maintenance is not performed according to schedule, it may lead to damages and failures. If maintenance intervals are not followed, the warranty will be void.

### Maintenance and inspection list

<table>
<thead>
<tr>
<th>Component</th>
<th>Interval</th>
<th>Task / check</th>
<th>Work to be performed</th>
<th>Performed by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete module</td>
<td>Weekly</td>
<td>General visual and acoustic remote check</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete module</td>
<td>Yearly</td>
<td>Check screw connections</td>
<td>Tighten to applicable standard as required</td>
<td></td>
</tr>
<tr>
<td>Complete module</td>
<td>Every 6 months</td>
<td>Check for damages</td>
<td>Replace damaged parts as required</td>
<td></td>
</tr>
</tbody>
</table>
Spare and wear parts

All spare and wear parts are available from Interroll. Maintenance and repair work may be performed only by qualified personnel. Interroll offers training sessions about required maintenance and repair tasks upon request.

Ordering information

Ordering spare and wear parts requires the exact identification of the module, Nameplate. The following information is required for an order:

- Machine number
- Type
- Item number of spare parts list
- Designation
- Comment

For additional information about the spare parts portfolio, please contact your supplier.

Spare parts drawing RM 8711

S = spare part, W = wear part, T = tool

<table>
<thead>
<tr>
<th>Item No.:</th>
<th>Designation</th>
<th>Comment</th>
<th>S/W/T</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cover</td>
<td></td>
<td>S</td>
</tr>
<tr>
<td>2</td>
<td>End cap</td>
<td></td>
<td>S</td>
</tr>
</tbody>
</table>
Decommissioning and disposal

- The packaging must be recycled to provide environmental relief.

Environmental protection regulations

For all work on and with the module, the legal regulations concerning waste avoidance and proper disposal and recycling must be followed.

⚠️ NOTICE

Substances with a water hazard class, such as greases and oils, hydraulic oils, coolants or cleaning agents with solvents may not be allowed to come into contact with the ground or reach the sewer system!

- Store, transport, catch and dispose these substances in suitable containers!
- Observe the notices on the supply containers.
- Observe any additional national regulations.