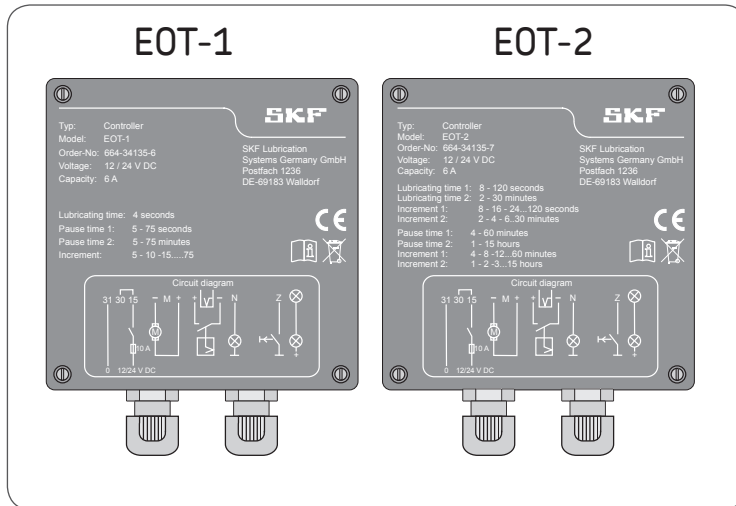


# EOT-1 / EOT-2 Controllers for Lubricant Pumps



Version 02



## EC Declaration of Conformity following EMC Directive 2004/108/EC, Annex IV Part 2

The manufacturer

SKF Lubrication Systems Germany GmbH, Heinrich-Hertz-Str. 2-8, DE - 69190 Walldorf

hereby declares the conformity of the following device

Designation: Controller

Type: EOT-1 EOT-2

Part number: 664-34135-6 664-34135-7

with the basic requirements of the mentioned directive when first being launched in the market.

Harmonized and other standards:

DIN EN 60204-1 2011:01 DIN EN 61000-6-3 2011:09

DIN EN 61000-6-1 2007:10 DIN EN 61000-6-4 2011:09

DIN EN 61000-6-2 2006:03 DIN EN 61000-6-6 2012:11

Walldorf, December 10, 2013



Dr.-Ing. Zdravko Paluncic  
Director Research & Development  
SKF Lubrication Business Unit

## Legal Disclosure

The Instructions following EMC Directive 2004/108/EC are part of the described product and have to be kept for further use.

### Warranty

The instructions do not contain any information on the warranty. This can be found in the general terms and conditions. To view these go to: [www.skf.com/lubrication](http://www.skf.com/lubrication).

### Copyright

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### Manufacturer

SKF Lubrication Systems Germany GmbH  
Heinrich-Hertz-Str. 2-8  
DE - 69190 Walldorf  
Tel: +49 (0) 6227 33-0  
Fax: +49 (0) 6227 33-259  
E-mail: [Lubrication-germany@skf.com](mailto:Lubrication-germany@skf.com)  
[www.skf.com/lubrication](http://www.skf.com/lubrication)

### Sales and Service Regions

#### Europe / Africa / Middle East / India

Lincoln GmbH  
Address, see manufacturer

#### Americas / Asia / Pacific

##### Lincoln Industrial

One Lincoln Way  
St. Louis, MO 63120-1578  
USA  
Tel.: (+1) 314 679 4200  
Fax: (+1) 8000 424 5359  
[www.lincolnindustrial.com](http://www.lincolnindustrial.com)  
[www.skf.com/lubrication](http://www.skf.com/lubrication)

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## Explanation of symbols and signs

You will find these symbols, which warn of specific dangers to persons, material assets, or the environment, next to all safety instructions in these operating instructions.

Please read these instructions completely and heed the instructions and warning and safety notes. Please make all warnings available also to other users.

	Warning level	Consequences	Probability
	<b>DANGER</b>	Death/ serious injury	Imminent
	<b>WARNING</b>	Serious injury	Possible
	<b>CAUTION</b>	Minor injury	Possible
	<b>ATTENTION</b>	Property damage	Possible

Symbols	
Symbol	Meaning
●	prompts an action
○	Used for itemizing
	Refers to other facts, causes, or consequences
→	Provides additional information within procedures

Symbols used	
Symbol	Meaning
	General warning
	Electrical component hazard Electrical shock hazard
	Slipping hazard
	Hazard from hot surfaces
	Crushing hazard
	Pressure injection hazard
	Wear personal protective equipment (goggles)
	Note
	Environmentally sound disposal
	Collect electric and electronic devices separately and dispose of in an environmentally sound manner

## Abbreviations and conversion factors

## Abbreviations

re.	regarding	oz.	Ounce
approx.	approximately	psi	pounds per square inch
°C	degrees Celsius	rh	relative humidity
cu.in	cubic inch	s	second
dB (A)	sound pressure level	sq.in.	square inch
i.e.	that is	e.g.	for example
etc.	et cetera	>	greater than
poss.	possibly	<	less than
°F	degrees Fahrenheit	±	plus or minus
fl.ou	fluid ounce	∅	diameter
fpsec	feet per second	mph	miles per hour
gal.	gallon	assy.	assembly
hp	horse power		
in.	inch		
incl.	including		
K	Kelvin		
kg	kilogram		
kp	kilopond		
kW	kilowatt		
l	litre		
lb.	pound		
max.	maximum		
min.	minimum		
min	minute		
ml	millilitre		
ml/d	millilitre per day		
mm	millimeter		
N	Newton		
Nm	Newtonmeter		

## Conversion factors

Length	1 mm = 0.03937 in.
Area	1 cm <sup>2</sup> = 0.155 sq.in
Volume	1 ml = 0.0352 fl.oz.
	1 l = 2.11416 pints (US)
Mass	1 kg = 2.205 lbs
	1 g = 0.03527 oz.
Density	1 kg/cm <sup>3</sup> = 8.3454 lb./gal(US)
	1 kg/cm <sup>3</sup> = 0.03613 lb./cu.in.
Force	1 N = 0.10197 kp
Speed	1 m/s = 3.28084 fpsec.
	1 m/s = 2.23694 mph
Acceleration	1 m/s <sup>2</sup> = 3.28084 ft./s <sup>2</sup>
Pressure	1 bar = 14.5 psi
Temperature	°C = (°F-32) x 5/9
Power	1 kW = 1.34109 hp

# 1. Safety instructions

## 1.1 General safety instructions

In addition, the owner must also ensure that the relevant personnel are fully familiar with and have understood the contents of the assembly/ operating instructions.

These instructions must be kept together with the product at an accessible location for further use.

The instructions are part of the product and must accompany the product when selling it. The described product was manufactured according to the state of the art.

Risks may, however, arise from its usage and may result in harm to persons or damage to material assets.

Any malfunctions which may affect safety must be remedied immediately. In addition to the lifecycle manual, general statutory regulations and other regulations for accident prevention and environmental protection must be observed and applied.

### 1.2 General behaviour when handling the product

- The product may only be used in awareness of the potential dangers, in proper technical condition, and according to the information in these instructions.
- Technical personnel must familiarize themselves with the functions and operation of the product. The specified assembly and operating steps and their sequences must be observed.
- Any unclear points regarding proper condition or correct assembly/ operation must be clarified. Operation is prohibited until issues have been clarified.

- Unauthorized persons must be kept away from the product.
- Any safety indications and internal operational instructions relevant for the respective work must be adhered to.
- Responsibilities for different activities must be clearly defined and observed. Uncertainty seriously endangers safety.
- Protective and safety mechanisms must not be removed, modified, or disabled during operation and must be checked for proper function and completeness at regular intervals.  
If protective and safety mechanisms must be removed, they must be re-installed immediately following conclusion of work and then be checked for proper function.
- Any malfunctions that occur must be resolved according to responsibility. The operator of the system or machine must



- be notified in case of malfunctions outside the scope of responsibility.
- Wear personal protective equipment.
  - Observe the particular safety data sheets when handling lubricants.

### 1.3 Qualified technical personnel

Only qualified technical personnel may install, maintain, and repair the product described in this document.

Qualified technical personnel are persons who have been trained, assigned, and instructed by the operator of the final product into which the described product is incorporated.



Such persons are familiar with the relevant standards, rules, accident prevention regulations, and assembly conditions as a result of their training, experience, and instruction. They are qualified to carry out the required activities and in doing so recognize and avoid any potential hazards. The definition of qualified personnel and the prohibition against employing non-qualified personnel are laid down in DIN VDE 0105 and IEC 364.

Relevant country-specific definitions of qualified technical personnel apply for countries outside the scope of DIN VDE 0105 or IEC 364.

The core principles of these country-specific qualification requirements for technical personnel cannot be below those of the two standards mentioned above. The operator of the final product is responsible for assigning tasks and areas of responsibility and for the responsibility and monitoring of the personnel. These areas must be precisely specified by the operator. The personnel must be trained and instructed if they do not possess the requisite knowledge.

Product training can also be performed by SKF in exchange for costs incurred.

#### 1.4 Electrical current hazard

	<b>WARNING</b>	
		<p><b>Electric shock</b> Working on products not disconnected from the power supply may cause personal injury and damage to property. Assembly, maintenance and repair works may be performed by qualified and authorized personal only on products previously disconnected from the power supply.</p>

Electrical connection may be carried out only by a qualified electrician authorized by the operator under consideration of the local connection conditions and legal prescriptions (e.g. VDE/ IEC).

#### 1.5 Operation

The following must be observed during commissioning and operation:

- All information within this manual and the information within the referenced documents.
- All laws and regulations that the operator must observe.

### 1.6 Assembly, maintenance, malfunctions, shutdown, disposal

- All relevant persons (e.g., operating personnel, supervisors) must be informed of the activity prior to the start of work. Precautionary operational measures and work instructions must be observed.
- Ensure through suitable measures that moving or detached parts are immobilized during the work and that no body parts can be crushed by unintended movements.
- Assemble the product only outside the operating range of moving parts, at an adequate distance from sources of heat or cold.
- Prior to performing work, the product and the machine or system in which the product is or will be integrated must be depressurized and secured against unauthorized activation.
- Carry out works on electrical components with voltage isolated tools only.
- Ensure proper earthing of the product.
- Drill required holes only on non-critical, non-load bearing parts.
- Other units of the superior machine must not be damaged or impaired in their function by the installation of the product.
- No parts of the centralized lubrication system must be subjected to torsion, shear, or bending.
- Use adequate lifting devices when working with heavy components.
- Avoid mixing up or wrong assembly of disassembled parts. Mark parts accordingly.

### 1.7 Intended use

#### EOT-1

The EOT-1 controller is designed exclusively to control Lincoln EOP pumps during interval operation. The lubrication time cannot be changed. The pause time depends on the values adjusted on the control printed circuit board.

#### EOT-2

The EOT-2 controller is designed to control lubricant pumps during interval operation. Lubrication time and pause time depend on the values adjusted on the control printed circuit board.

### 1.8 Foreseeable misuse

#### EOT-1

Any usage of the product differing from the aforementioned conditions and stated purpose is strictly prohibited.

Particularly prohibited is:

- the use in an explosive atmosphere.

#### EOT-2

Any usage of the product differing from the aforementioned conditions and stated purpose is strictly prohibited.

Particularly prohibited is the use:

- to control a Lincoln EOP lubricant pump.
- in an explosive atmosphere.

### 1.9 Disclaimer of liability

The manufacturer shall not be held responsible for damages:

- caused by inappropriate usage.
- resulting from improper assembly, configuration, or programming.
- resulting from improper response to malfunctions.
- caused by unauthorized modification of system components.
- caused by the installation of non-original components or spare parts.

### 1.10 Referenced documents

In addition to these instructions, the following documents must be observed by the respective target group:

- Operational instructions and approval rules
- EOP lubricant pump instructions (EOT-1 only)
- Lubricant pump instructions (EOT-2 only)
- Instructions from suppliers of purchased parts
- Safety data sheet (MSDS) of the lubricant used
- Project planning documents and other relevant documents.

The operator must supplement these documents with applicable national regulations for the country of use. In the event of sale or transfer these documents have to be attached to the product.

## 1.11 Residual risks

Residual risk	Remedy
Life cycle: assembly, malfunction, troubleshooting, repair, maintenance, start-up, operation, adjustment, shutdown, disposal	
Electric shock due to defective connection cable	<ul style="list-style-type: none"> <li>• Check connection cable for damages</li> </ul>
People slipping due to floor contamination with spilled or leaked lubricant	<ul style="list-style-type: none"> <li>• Exercise caution when disconnecting the product's hydraulic connections</li> <li>• Promptly apply suitable binding agents to remove the leaked/ spilled lubricant</li> <li>• Follow operational instructions for handling lubricants and contaminated parts</li> </ul>
Tearing or damaging of lines when installed on moving machine parts	<ul style="list-style-type: none"> <li>• If possible, do not install on moving parts; if this cannot be avoided, use flexible hose lines</li> </ul>

## 2. Lubricants

### 2.1 General information

#### ATTENTION

All products may be used only for their intended purpose and in accordance with the lifecycle instructions.

Intended use is the use of the products for the purpose of providing centralized lubrication/ lubrication of bearings and friction points with lubricants within the physical usage limits which can be found in the documentation for the device, e.g., operating instructions and the product descriptions, e.g. technical drawings and catalogs. Particular attention is called to the fact that hazardous materials of any kind, especially those materials classified as hazardous by EC Directive 67/548/EEC, Article 2, Para. 2, may only be filled into Lincoln centralized lubrication systems and components and delivered and/ or distributed with such systems and components

after consulting with and obtaining written approval from Lincoln.

No products manufactured by Lincoln are approved for use in conjunction with gases, liquefied gases, pressurized gases in solution, vapors, or such fluids whose vapor pressure exceeds normal atmospheric pressure (1013 mbar) by more than 0.5 bar at their maximum permissible temperature.

Other media which are neither lubricant nor hazardous substance may only be fed after consultation with and written approval from Lincoln.

SKF considers lubricants to be an element of system design and must always be factored into the selection of components and the design of centralized lubrication systems. The lubricating properties of the lubricants are criti

### 2.2 Selection of lubricants

#### ATTENTION

Observe the instructions from the machine manufacturer regarding the lubricants that are to be used. The amount of lubricant required at the lube point is specified by the bearing or machine manufacturer. It must be ensured that the required lubricant volume is provided to the lubrication point. The lubrication point may otherwise not receive adequate lubrication, which can lead to damage and failure of the bearing.

Selection of a lubricant suitable for the lubrication task is made by the machine/ system manufacturer and/or the operator of the machine/ system in cooperation with the lubricant supplier.

When selecting a lubricant, the type of bearings or friction points, the expected load during operation, and the anticipated ambient conditions must be taken into account. All economic and environmental aspects must also be considered.

### 2.3 Approved lubricants

#### ATTENTION

If required SKF can help customers to select suitable components for feeding the selected lubricant and to plan and design their centralized lubrication system

Please contact SKF if you have further questions regarding lubricants. It is possible for lubricants to be tested in the company's laboratory for their suitability for pumping in centralized lubrication systems (e.g. „bleeding“). You can request an overview of the lubricant tests offered by SKF from the company's service department.

#### ATTENTION

Only lubricants approved for the product may be used. Unsuitable lubricants can lead to failure of the product and to property damage.

#### ATTENTION

Different lubricants must not be mixed. Doing so can cause damage and require costly and complicated cleaning of the product/ lubrication system. It is recommended that an indication of the lubricant in use be attached to the lubricant reservoir in order to prevent accidental mixing of lubricants.

The product described here can be operated using lubricants that meet the specifications in the technical data. Depending on the product design, these lubricants may be oils, fluid greases, or greases.

Mineral, synthetic, and/ or and rapidly biodegradable oils and base oils can be used. Consistency agents and additives may be added depending on the operating conditions.

Note that in rare cases there may be lubricants whose properties are within permissible limit values but whose other characteristics render them unsuitable for use in centralized lubrication systems. For example, synthetic lubricants may be incompatible with elastomers.



## 2.4 Lubricants and the environment

ATTENTION
Lubricants may pollute ground and waters. Lubricants have to be handled and disposed of properly. Relevant applicable regulations and laws regarding the disposal of lubricants must be observed.

It is important to note that lubricants are environmentally hazardous, flammable substances which require special precautionary measures during transport, storage, and processing. Consult the safety data sheet from the lubricant manufacturer for information regarding transport, storage, processing, and environmental hazards of the lubricant that will be used.

The safety data sheet for a lubricant can be requested from the lubricant manufacturer.

## 2.5 Lubricant hazards

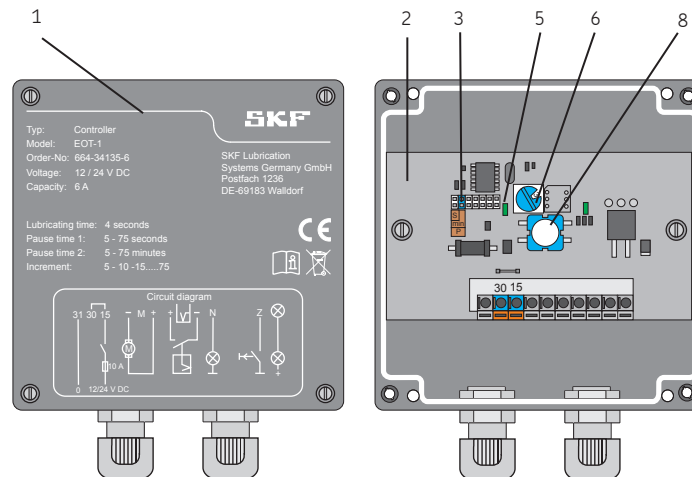
 <b>WARNING</b>
<div style="display: flex; align-items: center;">  <div> <p>Risk of slipping and injury Leaking lubricant represents a potential source of danger. Leaks must be sealed off without delay.</p> </div> </div>



## 3. Overview/ functional description

Item	Description
1	<b>Cover</b> All data regarding identification of the product and manufacturer as well as the wiring diagram are printed on the housing cover.
2	<b>Printed circuit board</b> All operating and controlling elements are positioned on the printed circuit board.
3	<b>Jumper: pause time</b> Serves to set the pause time in a range of seconds or minutes.
5	<b>LED (left side)</b> The left LED lights up if there is supply voltage or a machine contact present.
6	<b>Rotary switch: pause time</b> Serves to set different values regarding seconds or minutes
8	<b>Pushbutton: additional lubrication</b> Serves to trigger an additional lubrication cycle during the start-up.

Overview EOT-1 Fig. 1



2

3

Item	Description
------	-------------

<b>9</b>	<b>LED (right side)</b>
----------	-------------------------

Is lit while the motor of the EOP pump is running.
--

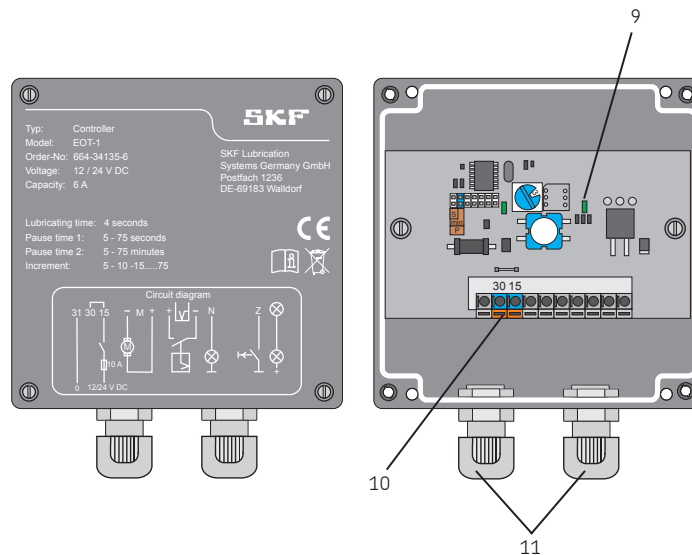
<b>10</b>	<b>Bridge: terminal 30/15</b>
-----------	-------------------------------

Serves to provide terminal 15 with voltage.
---

<b>11</b>	<b>Cable ducts</b>
-----------	--------------------

Serve to pass through supply and control lines.
---

Overview EOT-1 Fig. 2



## 3.2 EOT-2

## Item Description

**1 Cover**

All data regarding identification of the product and manufacturer as well as the wiring diagram are printed on the housing cover.

**2 Printed circuit board**

All operating and controlling elements are positioned on the printed circuit board.

**3 Jumper: pause time**

Serves to set the pause time in a range of minutes or hours.

**4 Jumper: lubrication time**

Serves to set the lubrication time in the range of seconds or minutes.

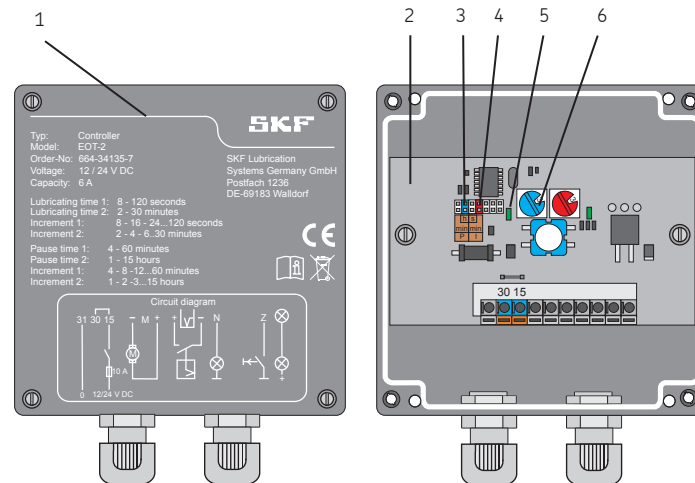
**5 LED (left side)**

The left LED lights up if there is supply voltage or a machine contact present.

**6 Rotary switch: pause time**

Serves to set different values regarding minutes or hours

Overview EOT-2 Fig. 3



Item	Description
------	-------------

7	<b>Rotary switch: lubrication time</b> Serves to set different values in seconds or minutes.
---	---

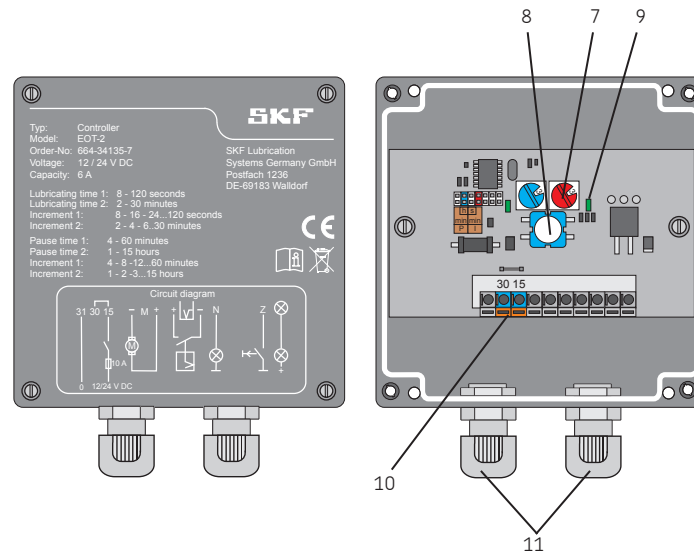
8	<b>Pushbutton: additional lubrication</b> Serves to trigger an additional lubrication cycle during the start-up
---	--

9	<b>LED (right side)</b> Is lit while the motor of the controlled pump is running
---	---

10	<b>Bridge: terminal 30/15</b> Serves to provide terminal 15 with voltage
----	---

11	<b>Cable ducts</b> Serve to pass through supply and control lines
----	--

Overview EOT-2 Fig. 4



## 4. Technical data

### 4.1 EOT-1/ EOT-2

Technical data

Installation position	any	
Protection class	IP 65	
Supply voltage	12 / 24 VDC $\pm$ 5 %	
Protection class	SELV (1) HELV	
Maximum power input	$\leq$ 7A	
Operating temperature	min. -25 °C	max. +70 °C
Interference suppression	Class A VDE 0875 T 11	
Interference immunity	DIN EN 61000-6-1	
Interference emission	DIN EN 61000-6-3	
Pause time	min.	max.
	5 seconds	75 hours
Outputs	transistor / N.O. contact	
EEPROM	lossless data storage	

#### External connecting options

Low-level indication

Additional lubrication

Terminal 30 continuous voltage\*

Terminal 15 machine contact\*

\*after removing the wire bridge

	EOT-1		EOT-2	
Pause time	min.	max.	min.	max.
	5 seconds	75 minutes	4 minutes	15 hours
Schmierzeit	4 seconds (fixed adjustment)		8 seconds	30 minutes
<b>Factory settings</b>				
Lubrication time	4 seconds		6 minutes	
Pause time	15 seconds		6 hours	

## 5. Delivery, returns, and storage

### 5.1 Delivery

The products are packaged in accordance with standard commercial practice according to the regulations of the recipient's country. During transport, safe handling must be ensured and the product must be protected from mechanical effects such as impacts.

The transport packaging must be marked „Do not drop!“.

There are no restrictions for land, air, or sea transport.

After receipt of the shipment, the product must be inspected for damage and for completeness according to the shipping documents. Transport damages must be reported to the forwarding agency immediately. Keep the packaging material until any discrepancies are resolved.

### 5.2 Storage

For storage there apply the following conditions:

#### 5.3 Electrical devices

- Dry and dust-free surroundings, storage in a well-ventilated and dry area
- Storage time: max. 24 months
- Admissible relative humidity: < 95%

Storage temperature:  
min. - 25 °C / max. + 70 °C

- Avoid direct exposure to sun or UV rays
- Shield nearby sources of heat and coldness.

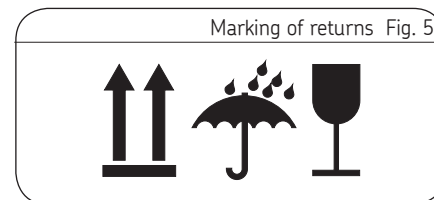
#### 5.4 General notes regarding the storage

- The product can be wrapped in plastic film to avoid low-dust storage.
- Protection against ground moisture by storing on a shelf or wooden pallet.

### 5.5 Returns

Clean contaminated parts and pack them properly before returning them. There are no restrictions for land, air or sea transport. Send your returns to our Service Department, address see manufacturer.

Returns have to be marked as follows on the packaging.



## 6. Assembly

### 6.1 General information

Only qualified technical personnel may install, operate, maintain, and repair the SKF MonoFlex pre-lubrication metering devices described in the lifecycle manual. Qualified technical personnel are persons who have been trained, assigned, and instructed by the operator of the final product into which the SKF MonoFlex pre-lubrication metering devices are incorporated.

Such persons are familiar with the relevant standards, rules, accident prevention regulations, and operating conditions as a result of their training, experience, and instruction. They are qualified to carry out the required activities and in doing so recognize and avoid potential hazards.

Before assembling/setting up the product, the packaging material as well as possible transport locks must be removed.

Keep the packaging material until any discrepancies are resolved.

#### ATTENTION

Observe the technical data (chapter 4)

### 6.2 Set-up and attachment

The product should be protected against humidity and vibration and should be installed in an easily accessible position to ensure all other installations can be carried out without any problem. Make sure there is adequate air circulation, so as to prevent overheating. For indications on the maximum admissible ambient temperature see the technical data. The installation position of the product must be effected following the indications in the assembly drawing.

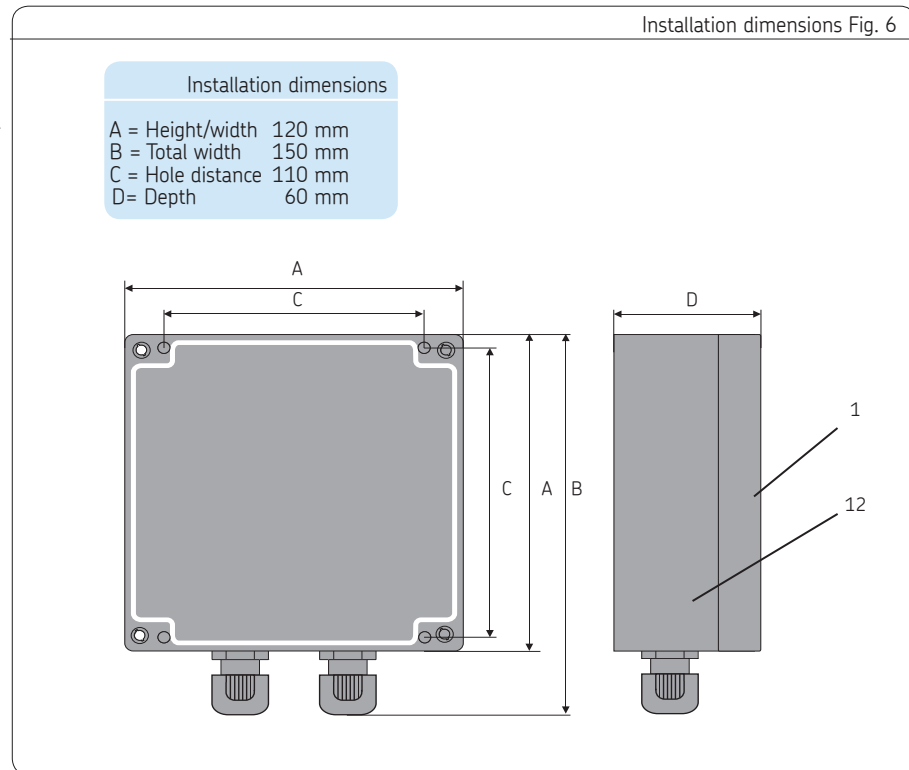
During assembly and during any drilling

work for the base plate, always pay attention to the following:

- Other units must not be damaged during assembly.
- The product must not be installed within the range of moving parts.
- The product must be installed at an adequate distance from sources of heat and coldness.
- Maintain safety clearances and comply with local regulations for assembly and accident prevention.



### 6.3 Installation dimensions and mechanical assembly

- Unscrew cover (1) .
- Use pen to mark hole pattern on place of assembly or mark pattern following the adjacent indications.
- Provide cover with bores (D 4.0 mm).
- Fasten housing (12) again.





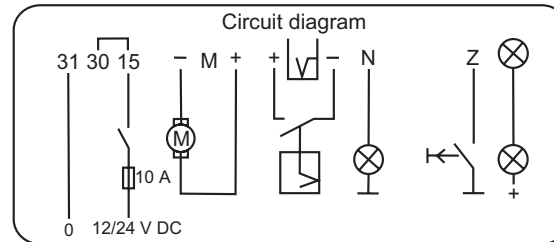
## 6.4 Electrical connection

		WARNING
	<p>Electrical shock Electrical connection may be carried out only by the operator or authorized personnel. Local connection conditions and legal prescriptions (e.g. DIN, VDE) must be adhered to.</p>	

- Provide electrical connection following the circuit diagram.
- Mount cover (1) again. Make sure there are no contaminations inside of the controller (e.g. drilling chips, etc.).
- Now the EOT-1/ EOT-2 can be used with the factory settings or be adapted to individual requirements by changing of parameters.

Electrical connections must be provided in such way that no tensile forces affect the product (tension-free connection). For details regarding the electrical characteristics, see chapter 4, Technical data.

Circuit diagram EOT-1/ EOT-2 Fig. 7



### 6.3 To change the pause time - EOT-1

To change the pause time:

Set the seconds in the pause-time range

- Remove the jumper (3) by means of tweezers from the "min" position and insert it in the "s" position.

Set the minutes in the pause-time range

- Remove the jumper (3) by means of tweezers from the "s" position and insert it in the "min" position.

Set pause-time value:

Turn rotary switch (6) to the desired position:

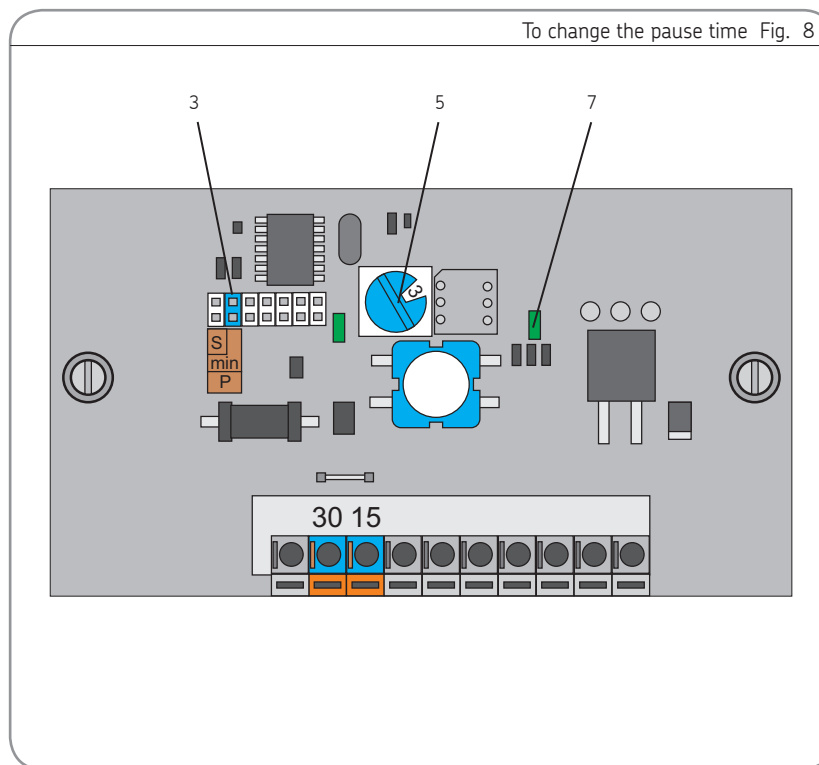
1 = 5 (smallest value)

F = 75 (biggest value)

Each switch position increases the values by 5.

**Notes regarding the 0 position:**

In the 0 position, the EOT-1 operates with the factory settings. In the 0 position, the right LED (9) flashes twice.



## 6.6 To change the pause time - EOT-2

### To change the pause time

Set the hours in the pause-time range

- Remove the jumper (3) by means of tweezers from the "min" position and insert it in the "h" position.

Set the minutes in the pause-time range

- Remove the jumper (3) by means of tweezers from the "h" position and insert it in the "min" position.

Set the pause time value

Turn rotary switch (6) to the desired position:

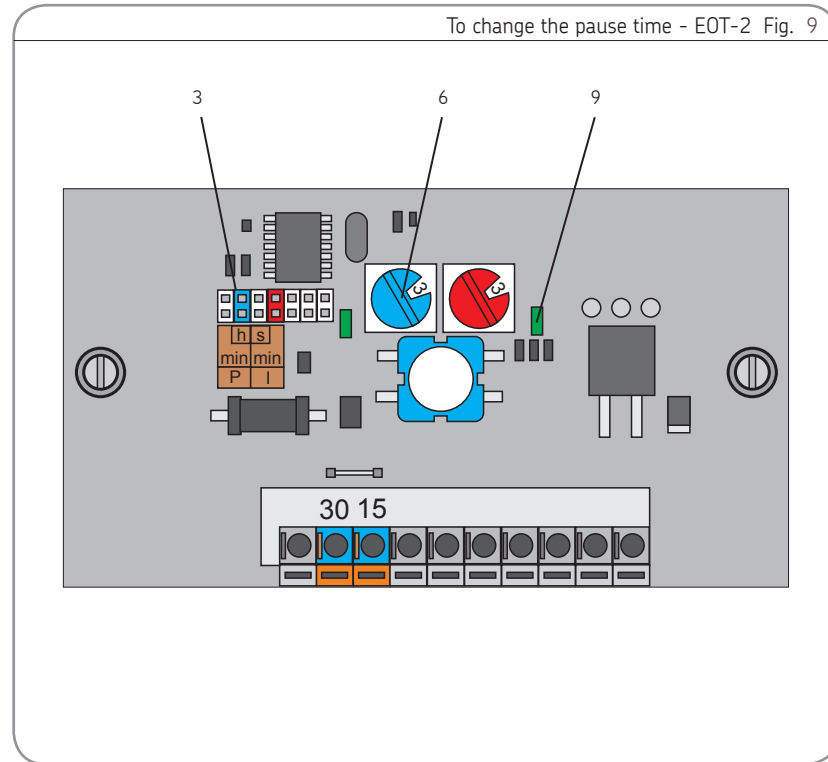
1 = smallest value

F = biggest value

Each switch position increases the values by 4 (minutes range) or by 1 (hours range).

#### Notes regarding the 0 position:

In the 0 position the EOT-2 operates with the factory settings. The right LED (9) will flash twice when rotating to the 0 position.



## 6.5 To change the lubrication time EOT-2

### To set the lubrication time - EOT-2

#### Set the seconds in the lubrication time range

- Remove the jumper (4) by means of tweezers from the "min" position and insert it in the "s" position.

#### Set the minutes in the lubrication time range

- Remove the jumper (4) by means of tweezers from the "s" position and insert it in the "min" position.

#### Set the lubrication time value

Turn rotary switch (7) to the desired position:

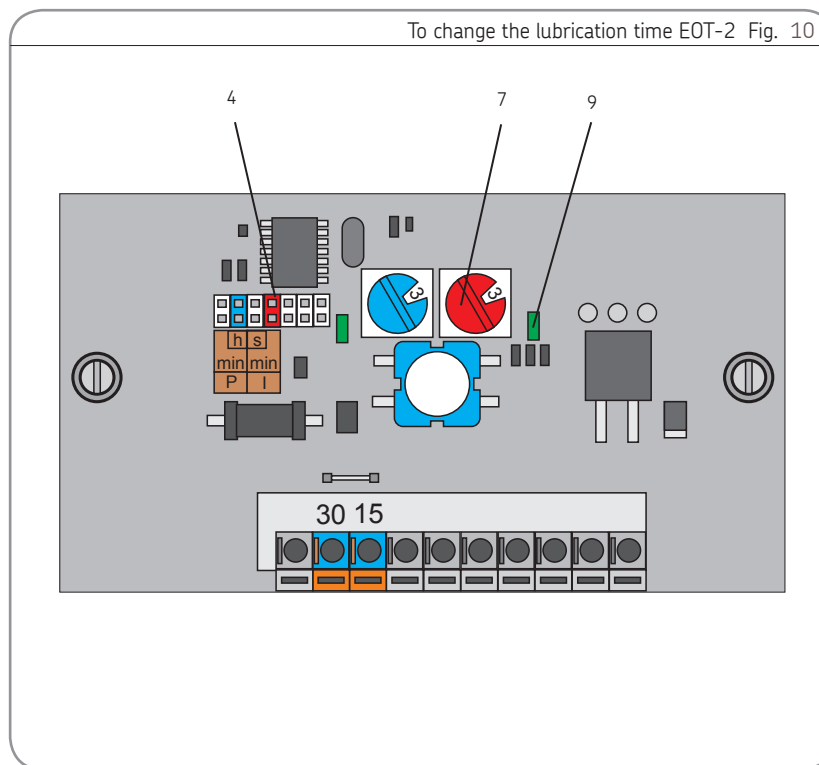
1 = smallest value

F = biggest value

Each switch position increases the values by 8 (seconds range) or by 2 (minutes range).

#### Notes regarding the 0 position:

In the 0 position the EOT-2 operates with the factory settings. The right LED (9) flashes twice when being turned to the 0 position.



## 7. Start-up

### 7.1 General information

Start-up is effected after assembly by connecting the controller to the operator's network respectively to the power supply of the superior machine.

After correct electrical connection respectively after switching on the superior machine, the EOT-1/ EOT-2 is ready for operation.

## 8. Operation, shutdown and disposal

### 8.1 General information

After correct electrical connection the EOT-1 is ready for operation. Start-up respectively shutdown is effected by switching the superior machine on or off.

### 8.2 Temporary shutdown

The EOT-1 can be shutdown temporarily by disconnecting it from the power supply.

### 8.3 Final shutdown and disposal

If the product will be permanently shut down, the local regulations and laws regarding the disposal of contaminated equipment must be observed.

The product can also be returned to the manufacturer for disposal, in which case the customer is responsible for reimbursing the costs incurred. The parts are recyclable.

Disposal Fig. 11



## 9. Maintenance, cleaning

### 9.1 General information

The warranty does not apply for defects arising from improper maintenance, repair or cleaning.

### 9.2 Cleaning

- Thoroughly clean all outer surfaces. Do not use any aggressive cleaning agents. Normally inside cleaning is not required.

### 9.3 Maintenance

- There are no user serviceable parts.

## 10. Troubleshooting

### EOT-1:

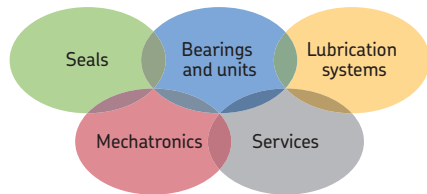
See Instructions of the Lincoln EOP lubricant pump

### EOT-2:

See Instructions of the pump to be controlled by the EOT-2







### The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

#### Important information on product usage

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.

Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.

Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

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SKF Lubrication Systems Germany GmbH  
Heinrich-Herz-Straße 2-8  
69190 Walldorf · Deutschland  
Tel.: +49 (0)6227 33-0  
Fax: +49 (0)6227 33-259  
E-mail: [Lubrication-germany@skf.com](mailto:Lubrication-germany@skf.com)  
[www.skf.com/lubrication](http://www.skf.com/lubrication)

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