



R. STAHL, INC.

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

R. STAHL  
Schaltgeräte GmbH

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

# ECOLUX 6600

Series 6600/5●●-8●9●-●●●●-125

**Explosion Protected Fluorescent  
Light Fixtures for Hazardous  
and Corrosive Applications**



**Please read this entire document before beginning any work.**

## 1. Safety Instructions

Installation and maintenance of these fixtures should only be performed by qualified personnel in accordance with the National Electrical Code (NFPA 70) and local codes.

**CAUTION:**

- Disconnect power supply before installing or servicing these light fixtures.
- Any modification to these fixtures without written approval from the manufacturer is not permitted.
- Operate only undamaged and clean fixtures within the operating parameters listed in section 2.
- These fixtures shall be installed with conduit or wired with 90°C cable, listed for the appropriate location, per the NEC requirements.
- These light fixtures must be transported and stored in their original packaging only.

## 2. Technical Data

Please also refer to the technical data on the nameplate of the light fixture.

**Certification**

FM File No. J.I.3012747  
Class I, Zone 2, Group IIC T5  
Class I, Div. 2, Groups ABCD  
Class II, Div. 1 & 2, Groups EFG  
Class III

**Ambient temperature**

55°C (131°F) Max.; -20°C (-5°F) Min.

**Environmental protection**

IP 66 / Type 3, 4, 4X  
is achieved by proper installation of original entry hardware.  
(see parts and accessories)

**Lamp Type**

T8 Medium Bi-pin base (see fixture nameplate for lamp wattage)

**Electrical Supply**

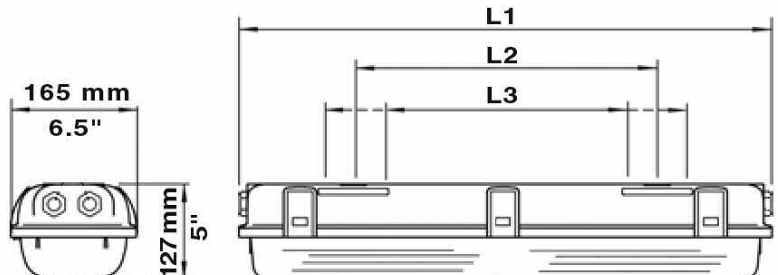
See fixture nameplate for supply voltage and frequency.

**EMI Protection**

To ANSI C82.11

## 3. Dimensions

	17 W	32 W	40 W
L1	700 mm 27.5"	1310 mm 51.6"	1610 mm 63.4"
L2	400 mm 15.75"	800 mm 31.5"	800 mm 31.5"
L3	340 - 460 mm 13.4" - 18.1"	680 - 920 mm 26.8" - 36.2"	795 - 1030 mm 31.3" - 40.5"





**R. STAHL, INC.**

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

**R. STAHL  
Schaltgeräte GmbH**

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

**4. Fixture Mounting Methods**

**4.1 Suspension on two M8 eye bolts with fixed suspension points.**

(see parts and accessories P/N 60 008 03 90 0).



**4.2 Suspension on two stainless steel lugs attached to adjustable mounting brackets for adjustable suspension points.**

(see parts and accessories P/N 66 008 02 75 0).



**4.3 Mounting to ceiling by two adjustable ceiling mounting brackets for adjustable suspension points.**

(see parts and accessories P/N 60 008 01 75 0).



**4.4 Mounting with ceiling mounting brackets for fixed mounting points.**

(see parts and accessories P/N 66 008 03 75 0).



**4.5 Mounting brackets (stainless steel) for wire basket systems.**

For fixed mounting points use P/N 66 008 03 26 0.  
For adjustable mounting points add two brackets P/N 66 008 01 75 0. (see parts and accessories).



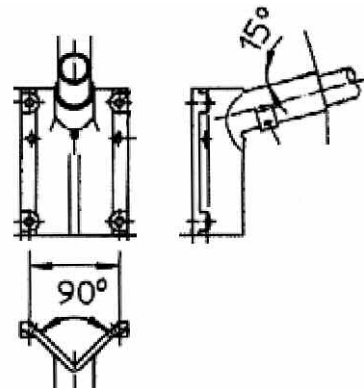
**4.6 Pole mounting with stainless steel pipe clamps fixed to adjustable mounting brackets for adjustable mounting points.**

(see page 7 parts and accessories for different pipe o.d.).  
Note: Only R. STAHL, INC. clamps warranty secure mounting and sealing.



**4.7 Stanchion mounting .**

Using a cast stanchion bracket which can be mounted to a flat wall or a 90° outer corner. (see parts and accessories P/N 461 717 0). Insert into the bracket a piece of 1 1/2" EMT conduit and mount the fixture to the EMT conduit using a pair of 1 1/2" stainless steel pipe clamps P/N 66 008 01 26 0.



**4.8 Wall mounting brackets (stainless steel) tilt the fixture at 15° increments.**

(see parts and accessories P/N 66 04 26 0).





**R. STAHL, INC.**

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

**R. STAHL  
Schaltgeräte GmbH**

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

**5. Installation**

**5.1 Opening the Fixture**

1. All the snap-action buckles must be actuated, using a screw driver. (Fig.1) The black snap-action buckles have a double function.
  - a) They serve as hinges
  - b). Actuation of an optional contact block.

When opening the fixture the lens remains suspended in the snap-action buckles. The hinges keep the lens securely suspended after opening the fixture. In case of lens replacement it needs to be deliberately pressed out of the hinges.



Fig.1

An optional 2 pole contact block can be mounted to de-energize the fixture, actuated from the outside by a screwdriver. (Fig.2)



Fig.2

**5.2 Open the Reflector Panel**

1. The reflector is opened by pressing the two locking snaps. using a screwdriver.

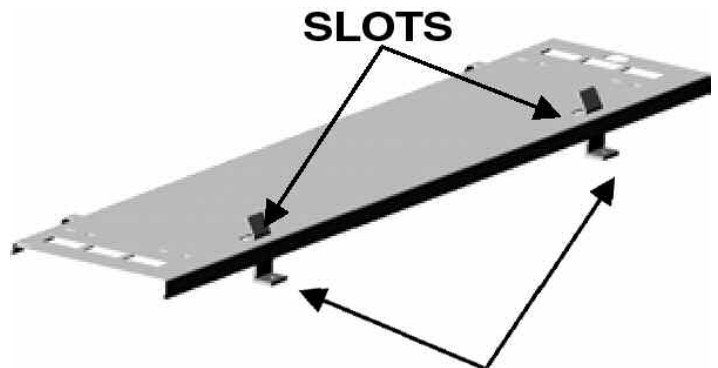
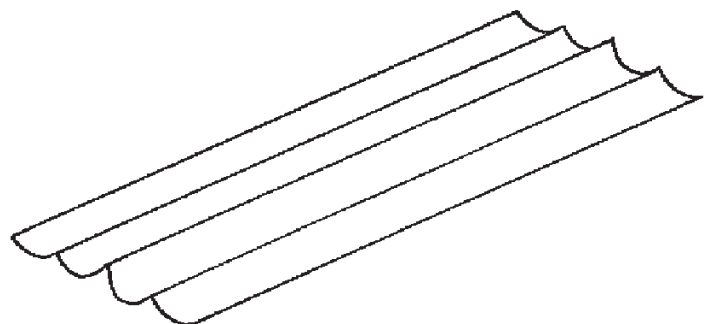


Fig.3

**5.3 Parabolic Reflector**

An optional parabolic reflector can be retro-fitted to the reflector panel very easily.

- Bend the flaps on the parabolic reflector 90° downward
  - Then insert the flaps through the slits into the reflector panel and secure them by folding them down.
- (see parts and accessories)





R. STAHL, INC.

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

R. STAHL  
Schaltgeräte GmbH

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

# INSTALLATION OPERATION & MAINTENANCE SHEET

## 5.4 Fitting of entry hardware

1a. For cable installation:

Install the MCR cable connector through the sealing ring (P/N NCS1 (1/2") or NCS2 (3/4")) into the fixture. Refer to MCR connector instruction.

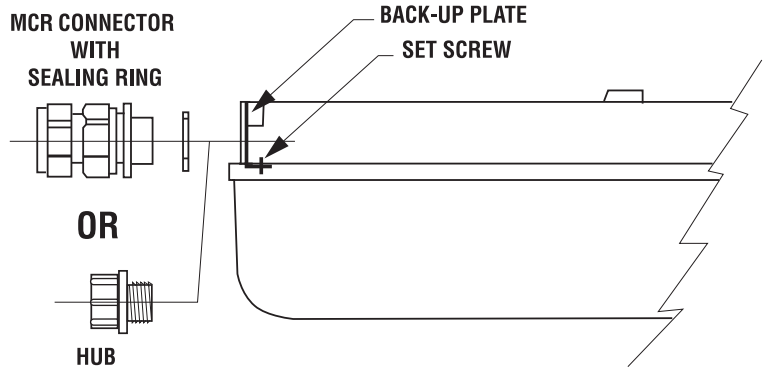
1b. For conduit installation:

Install conduit hub(s) 1/2" (8166/11-01-N) or 3/4" (8166/11-02-N)

2. Thread the entry hardware tightly into the back-up plate which is inside the fixture.

3. The back-up plate includes a setscrew for securing and bonding the entry hardware. This must be tightened firmly using a screwdriver.

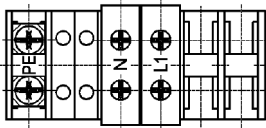
4. All unused openings must be closed up with appropriate close-up plugs. (see parts and accessories)



**CAUTION:** Make sure the fixture is free of mechanical tension which could result in bending, breaking or twisting and would impair the Ingress Protection.

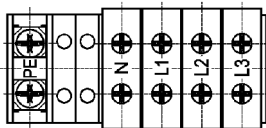
## 5.5 Wiring Power Connection

- 1 Insert cable through the MCR connector into the fixture and follow the instruction of the cable connector.
2. In case of conduit installation, connect the hub/conduit and pull the wires through per the NEC. (see parts and accessories)



Terminal block for 3 wire connection

L1 = Phase conductor  
N = Neutral conductor  
PE = Ground conductor (Protective Earth)

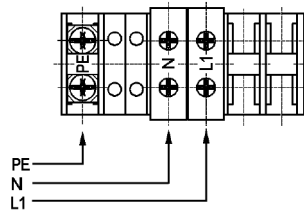


Terminal block for 5 wire connection

L1,L2,L3 = Phase conductor  
N = Neutral conductor  
PE = Ground conductor (Protective Earth)

Terminal capacity:  
Max. 2 stranded wires  
10 AWG (4 mm<sup>2</sup>)  
per terminal.

### Dead-end Wiring (3 Wires)





R. STAHL, INC.

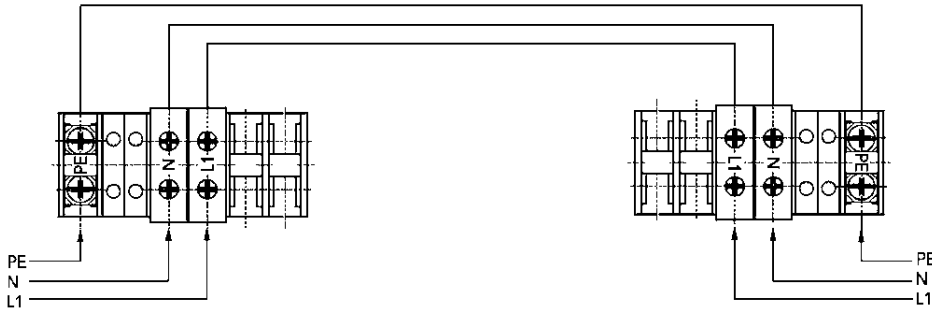
9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

R. STAHL  
Schaltgeräte GmbH

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

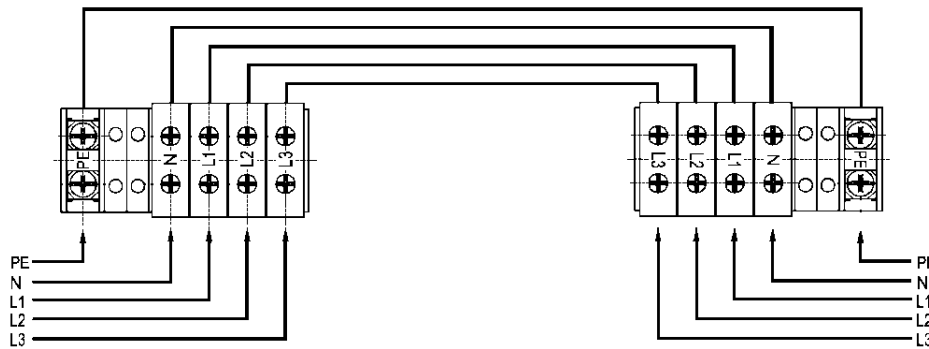
**Feed Through-Wiring (3 Wires)**



**NOTE:**

The internal feed through-wiring between terminal blocks is rated for 16 Amps.

**Feed Through-Wiring (5 Wires)**

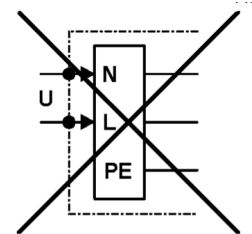
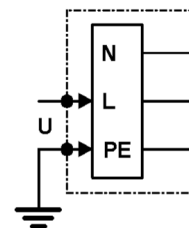
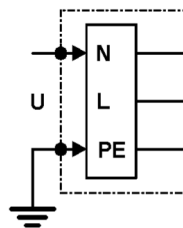


**Important!** After connecting the wires, ensure that:

- All wires are connected to the correct terminals (please observe the terminal designations).
- All screws on the terminal blocks are tightened (to 18 in-lbs. or 2 Nm); including unused terminals.
- All entry hardware is installed properly.
- All unused openings have been closed.

**5.6 Lighting Circuit Insulation Test**

Before performing this optional test, make sure the fixture is de-energized and disconnected from the supply wires. A DC insulation test of the circuit can be performed with  $\leq 1000V$  DC and 1mA current between the Neutral/Line and the Ground. Testing between Line and Neutral is not permitted.





**R. STAHL, INC.**

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

**R. STAHL  
Schaltgeräte GmbH**

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

**CAUTION:**

Before energizing the circuit, ensure all wires are reconnected properly.

**5.7 Closing the Reflector Panel**

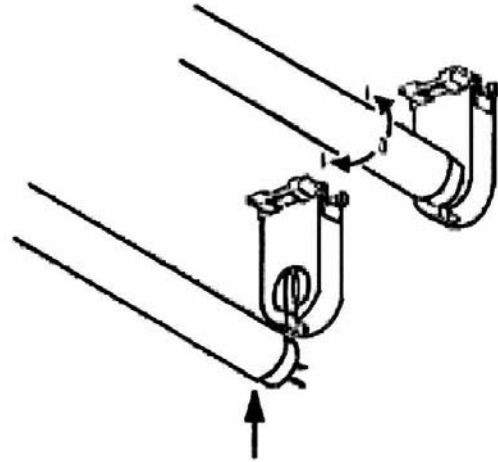
Rotate the reflector panel and engage the locking snaps.

**5.8 Lamp Installation**

Refer to the fixture nameplate to determine the lamp type. Insert both lamp sockets into the respective slots of the lampholder into the middle of the socket and up to the stop. Turn the lamp left or right until a notch position is felt.

**5.9 Closing the Fixture Lens**

When closing the lens, it must be pressed into the correct position; the snap-action brackets are then simply closed by hand



**6. Start Up**

Before applying power to the fixture ensure that:

- it is installed according to the NEC
- the wiring has been done correctly
- unused entry openings are closed up
- the fixture is not damaged
- the lamps are properly inserted
- the fixture is closed up properly.

**7. Maintenance**

**7.1 Cleaning the Light Fixture**

Use only a damp cloth to clean the light fixture. A solvent-free household detergent can be added to the cleaning water.

**7.2 Repairs and Maintenance**

Only qualified personnel may perform repairs and maintenance on the light fixtures. Use only original replacement parts. Any others would invalidate the certification and warranty (see parts and accessories).

**7.3 Lamp Replacement**

1. In order to minimize the production of high temperatures at the lamp electrode that are transferred to the end cap, fluorescent lamps need to be replaced prior to reaching "end of life". The approach of the "end of life" condition is usually indicated by heavy blackening of the end of the lamps, a failure to light, or flickering of the light output. The high temperature occurs because the electronic ballast supplies a constant current, the voltage across the lamp increases with age, and the resulting power dissipation in the lamp electrode increases the electrode temperature as the lamp ages.

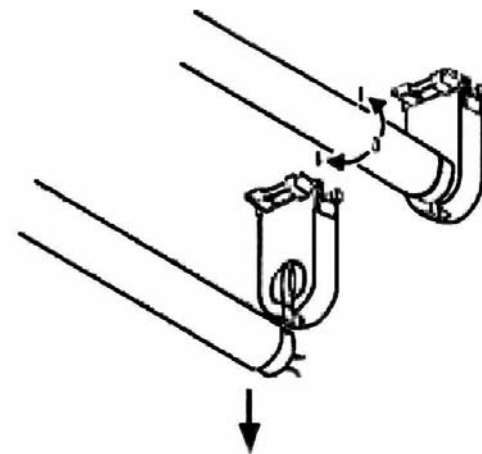
For luminaires operated continuously, the lamps should be replaced after approximately 24,000 hours of operation.

For luminaires that are switched on and off several times daily, the lamps should be replaced after approximately 12,000 hours of operation.

2. De-energize before opening the fixture
3. Follow the instruction in section 5.1
4. Gently twist to release the lamp and remove it
5. Follow the instructions in sections 5.8 and 5.9

**7.4 Troubleshooting**

- Is the fixture receiving power?
- Is the correct lamp securely installed and in good condition?
- Are all the wires correctly terminated?
- Is the ballast unit in good condition?





R. STAHL, INC.

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

R. STAHL  
Schaltgeräte GmbH

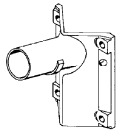




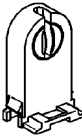
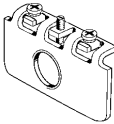

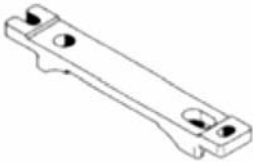
Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

**8. Parts and Accessories**



Use only the following original spare parts and accessories, any others would invalidate the certification and warranty.

Item	Image	Description	Part Number
Cast wall and corner mounting bracket for stanchion mounting	 S0613P	Insert 1 1/2" EMT conduit into bracket Use pipe clamps (PN 66 008 01 26 0) to attach fixture to conduit	461 717 0
Lens		for light fixture 2' 17W 4' 32W 5' 40W	66 000 01 05 0 66 000 02 05 0 66 000 03 05 0
Snap Action Buckles		Color: White 10 Pieces	66 008 01 40 0
		Color: Black 6 Pieces	66 008 02 40 0
		Color: Black 2 Pieces with a borehole for switch actuation	66 008 03 40 0
Lamp Holder		snap-in lamp holder	385 613 0
Entry back-up plate		stainless steel back-up plate with set screw and grounding provisions entry threads: 1 x NPT 1/2" 2 x NPT 1/2" 1 x NPT 3/4"	60 008 17 55 0 60 008 21 55 0 60 008 18 55 0
Eye bolts M8		1 pair of eye bolts M8 can be directly screwed into the inserts of the fixture for fixed suspension points	60 008 03 90 0
Ceiling Mounting brackets		1 pair of fixed ceiling mounting brackets for fixed mounting points	60 008 03 75 0



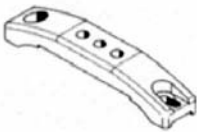





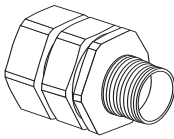
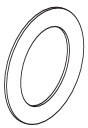
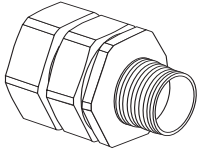

**R. STAHL, INC.**

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

**R. STAHL  
Schaltgeräte GmbH**

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

Mounting Brackets		1 pair of mounting brackets for adjustable mounting points	66 008 01 75 0
Suspension Lugs		1 pair of stainless steel suspension lugs which can only be used together with mounting brackets P/N 66 008 01 75 0	60 008 02 18 0
		1 pair of stainless steel suspension lugs c/w adjustable mounting brackets for adjustable suspension points	66 008 02 75 0
Pipe Clamps		1 pair of stainless steel pipe clamps c/w adjustable mounting brackets for adjustable mounting points EMT 1 1/4" EMT 1 1/2" EMT 2"	66 008 05 26 0 66 008 01 26 0 66 008 02 26 0
Tilttable Wall Mounting bracket		1 pair of stainless steel wall mounting brackets which tilt at 15° increments complete with adjustable mounting brackets for adjustable mounting points	66 008 04 26 0
Clamps for Wire Basket Systems		1 pair of stainless steel brackets suitable for fastening fixture to a wire basket system	66 008 03 26 0
Cable fitting 1/2" NPT		For standard MC Cable	MCR 050
Sealing ring 1/2" NPT		For above MCR 050	NCS 1
Cable fitting 3/4" NPT		For standard MC Cable	MCR 075
Sealing ring 3/4"		For above MCR 075	NCS 2




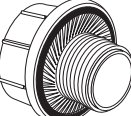



R. STAHL, INC.

9001 Knight Road  
Houston, TX 77054  
Tel: 800-782-4357 FAX: 713-792-9301  
E-mail: sales@rstahl.com  
Website: www.rstahl.com

R. STAHL  
Schaltgeräte GmbH

Geschäftsbereich Leuchten  
Nordstraße 10  
99427 Weimar, Germany

**INSTALLATION OPERATION  
& MAINTENANCE SHEET**

Conduit Hub 1/2" NPT		Conduit hub 1/2" NPT with sealing ring	8166/11-01-N
Conduit Hub 3/4" NPT		Conduit hub 3/4" NPT with sealing ring	8166/11-02-N
Close-up plug 1/2" NPT		Polymeric close-up plug 1/2" NPT	PD-E-0-29-00
Close-up plug 3/4" NPT		Polymeric close-up plug 3/4" NPT	PD-E-0-30-00
Parabolic Reflector (Optional)		For retro-fitting for 1-lamp fixtures: 17W 32W 40W  for 2-lamp fixtures: 17W 32W 40W	60 309 03 58 0 60 309 04 58 0 60 309 06 58 0  60 309 01 58 0 60 309 02 58 0 60 309 05 58 0

**Note:**  
The nature of these instructions is only informative and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of the manufacturer, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.