

**RC66**  
Radio Receiver



Radio transmission



for touch probes

Installation instructions

English

Type

P03.6600-010



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 Installation instructions interface **IF59-A2** (P03.5900-000.011)

Keys:

**CAUTION**



Important advice for appliance protection



Advice to secondary literature



Additional advice



Tip



LED shines



LED flashes



Green



Red



Blue



Orange



Violet

Abbreviations:

M<sub>d</sub> Tightening Torque

# 1. Safety Rules

**CAUTION**



**Risk of short-circuit**

Please separate connecting cable resp. plug connection off circuit only.

# 2. System Overview

## 2.1 Description

The radio receiver is compatible with the BLUM measuring devices **TC** series (radio probes TC60, TC63-30). The receiver enables wireless communication between the measuring devices and the NC control. Data transfer to the NC control via IF59-A2 interface.

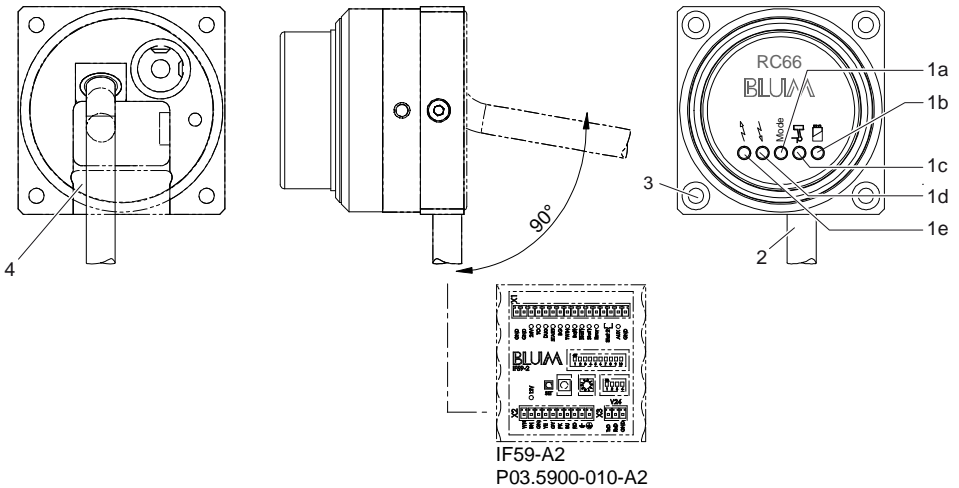


Fig. 2.1

- |                   |                                |
|-------------------|--------------------------------|
| (1a) LED mode     | (2) cable                      |
| (1b) LED battery  | (3) for mounting screws        |
| (1c) LED status   | (4) seal insert + O-Ring       |
| (1d) LED receive  | (at horizontal cable outgoing) |
| (1e) LED transmit |                                |

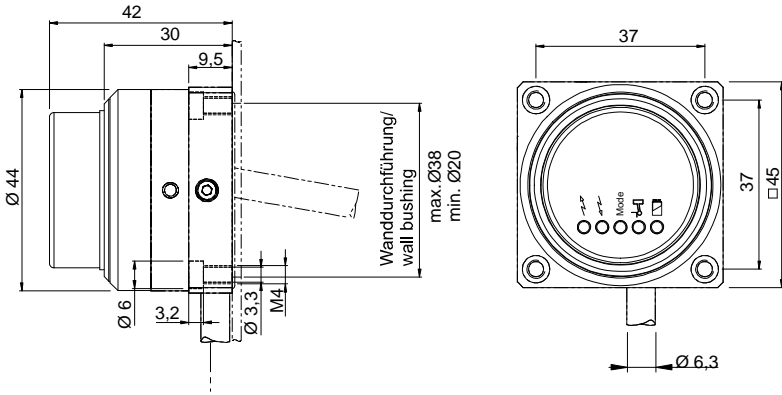









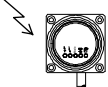

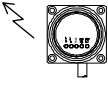



Fig. 2.2

## 2.2 Display Elements

LED		LED colour	function
MODE (1a)			Standby
			Mode TC1 ... TC6
			Pairing procedure
Battery (1b)			Battery o.k.
			Battery low
Status (1c)			Initial position
			Probe deflected
Receive (1d)		off	No reception
			Reception o.k.
Transmit (1e)			Send command

Tab. 2.1

## 2.3 Technical Data

Protection class	IP68
Power supply	12 V DC / 100 mA via IF59-A2
Weight	600 g
Signal transmission	Radio transmission
Frequency band:	2,400 – 2,4835 GHz
Transmission power	0 dBm
Transmitter / receiver range	15 m, see chap. 2.4
Minimum bending radius	60 mm (application: flexible)
Max. cable length	50 m
Storage temperature	-20 °C ... +70 °C
Operating temperature	+5 °C ... +50 °C

Tab. 2.2

## 2.4 Area of Work

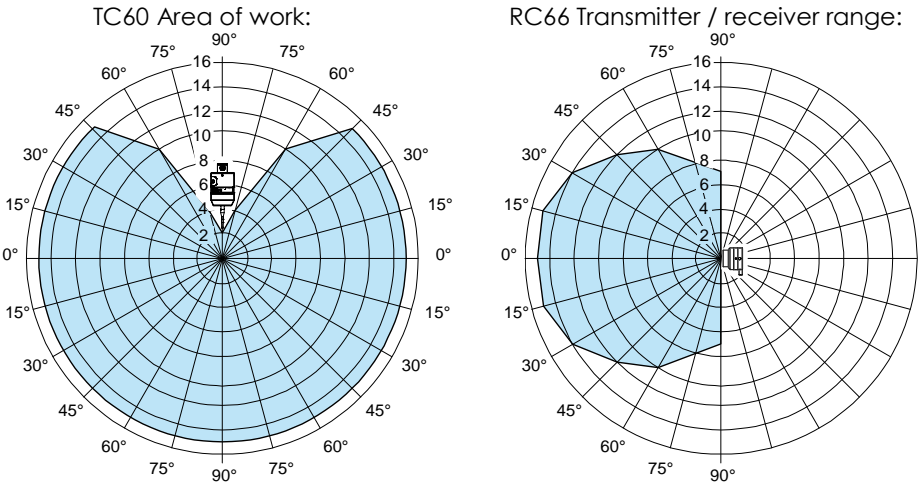


Fig. 2.3

## 2.5 Complete System

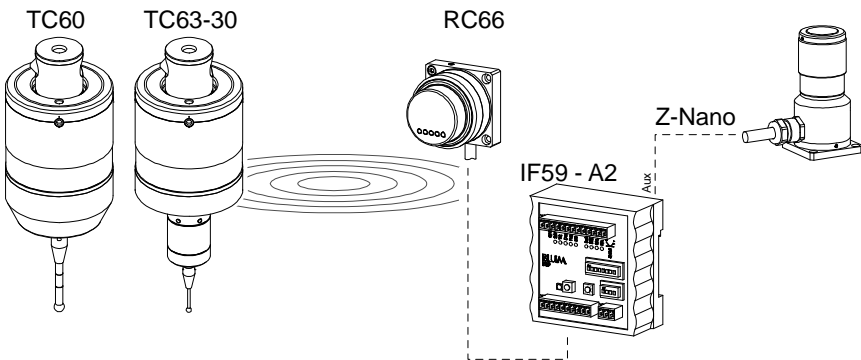


Fig. 2.4

- ⇒ Switch ON/OFF via radio signal
- ⇒ Signal transmission for **TC** series

### 3. Mechanical Installation

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**CAUTION**



**Risk of short-circuit**

Damage by chips  
Never install cables and hoses without protection.  
Cables and hoses must always be protected against chips  
(protective hose, protection spring, cover etc.).

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**CAUTION**



**Risk of short-circuit**

Damage of the cable by sharp edges  
Pls. deburr the sharp edges on the cable bushing and  
mount edge protection!

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**CAUTION**



- The system should be placed protected from coolant and chips.
  - Distance between probe and receiver:  
Pay attention to chap. 2.4
  - Keep distance to other radio systems
-



### 3.1 Mounting Variants

**Cable outgoing horizontal:**



**Pollution of the system**

Mount gasket (9a) and O-ring (9b)

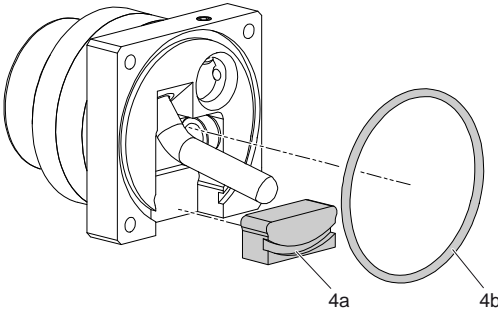


Fig. 3.1

**Cable outgoing vertical:**

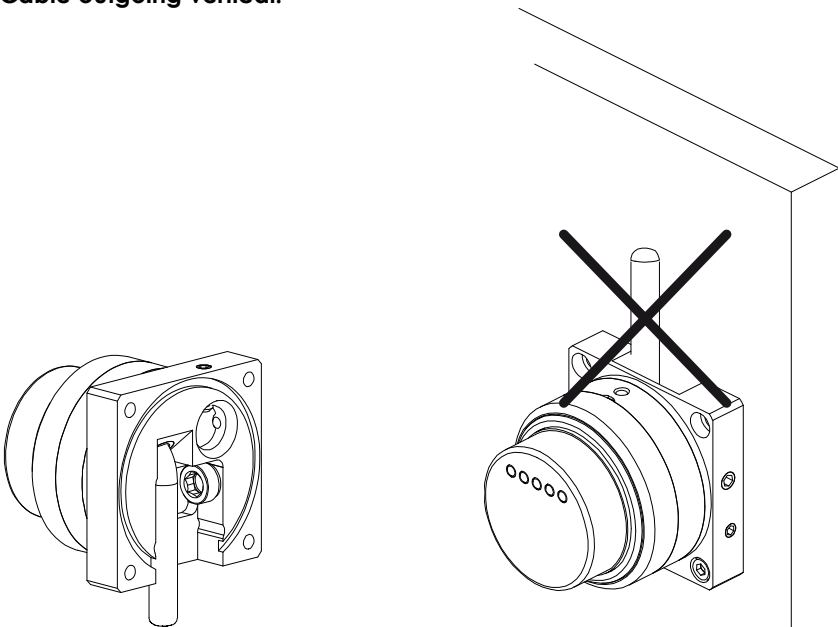


Fig. 3.2

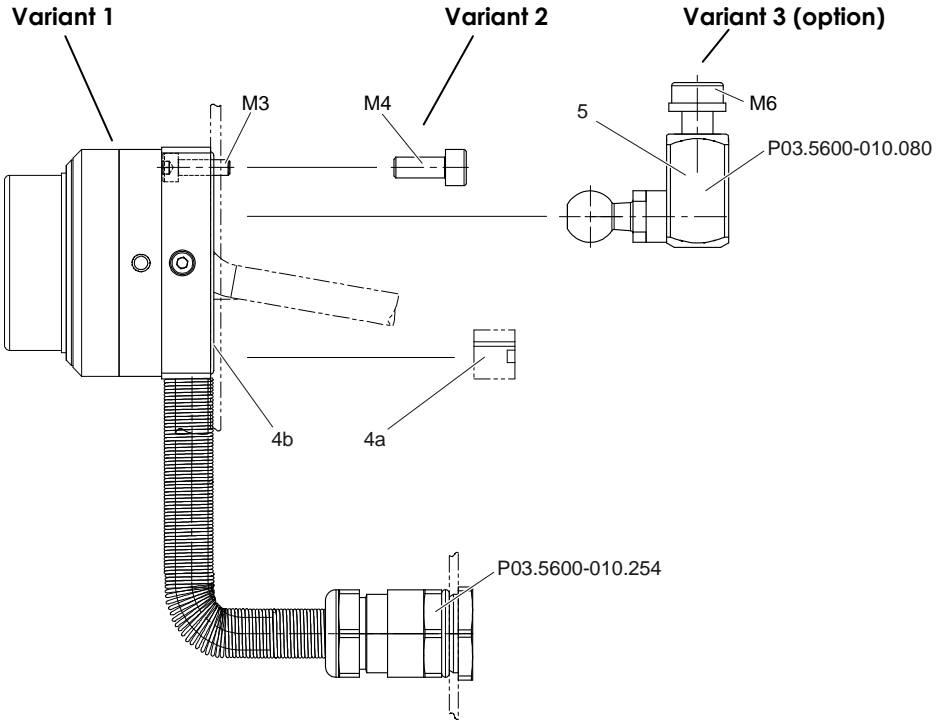


Fig. 3.3

- (4a) seal insert
- (4b) O-Ring
- (5) universal holder (option)

Tightening torque:



DIN912 M3x10:  $M_d = 1,3 \text{ Nm (max.)}$

DIN912 M4x10:  $M_d = 3,0 \text{ Nm (max.)}$

DIN912 M6x12:  $M_d = 10,5 \text{ Nm (max.)}$



Drilling template (scope of delivery)

**Variant 3**  
**Option Universal Holder**

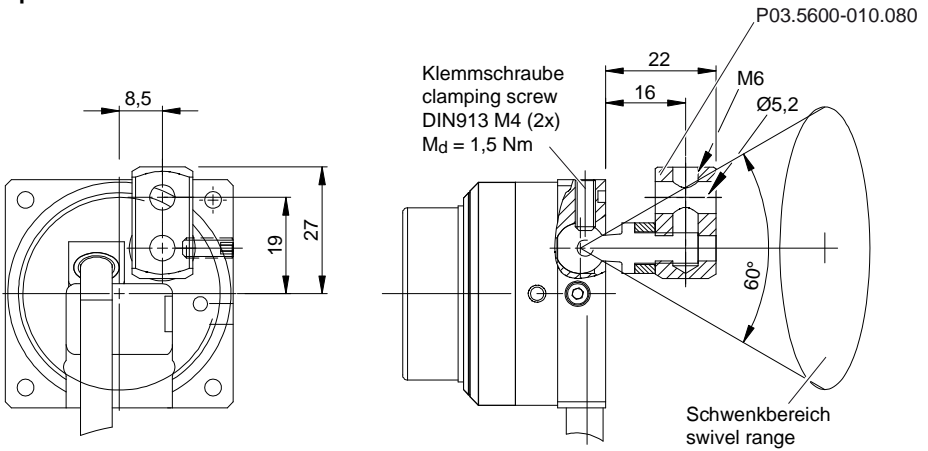
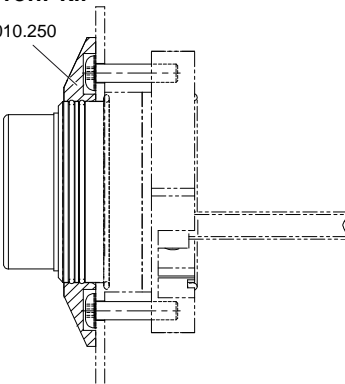


Fig. 3.4


**Variant 4:**  
**Option Front-Kit**

P03.6600-010.250



Pls. refer to the appropriate data sheet

## 4. Electrical Connection

 See installation instructions IF59-A2

## 5. Maintenance

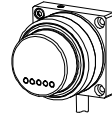
The receiver needs minimum maintenance only.  
Keep the receiver clean and free from chips.

## 6. Order Numbers

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Radio receiver RC66

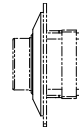
- Cable length	L = 10 m	PUR	P03.6600-010-A2-10
	L = 20 m	PUR	P03.6600-010-A2-20
(8 wires)			




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Front-kit

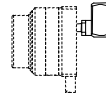
P03.6600-010.250




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Universal holder

P03.5600-010.080




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Heavy Duty Kit  
Protection spring 1m incl. screwing

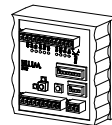
P03.5600-010.254





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Interface IF59-A2

P03.5900-010-A2



## 7. Radio Approval

<b>Area:</b>	<b>Radio Approval:</b>	<b>Regulations:</b>
Europe:	CE 0681	EN 300 328 V1.4.1, EN 301 489-17 V1.2.1, EN 60950-1:2001
Japan:	 R 202WW10568412	“This device has been granted a designation number by Ministry of Internal Affairs and Communications under „Ordinance concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment (特定無線設備の技術基準適合証明等に関する規則)“ Article 2-1-19.
USA:	FCC ID: ZCQRCA	FCC Part 15 This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Canada:	IC:9570A-RCA	Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.  This equipment complies with IC Canada RF radiation exposure limits set forth for an uncontrolled environment as per RSS-102 Issue 4.

## EC Declaration of Incorporation

acc. to the EC Machine Regulations 2006/42/EC in the edition from 17 May.2006

We hereby confirm that the subsequently following components are defined for the installation into other machines and that they are in accordance with the following safety requirements of the EC regulations.

Commissioning is not allowed until it is ascertained that the machines, in which the components are installed, are in accordance with the EC regulations 2006/42/EC.

The relevant technical information is compiled acc. to annex VII part B and, where appropriate, we will send the information concerning the components to the different countries. The industrial property rights of Blum-Novotest GmbH will remain unaffected.

Component name: P03.6600  
Radio receiver

Safety requirements  
2006/42/EG, Annex I 1.5.1

Applied standards:  
EC-Regulations: 2004/108/EG  
2006/95/EG  
1999/5/EG

Applied harmonized standards: EN61000-6  
EN60204-1  
EN ISO 12100  
EN 300 328  
EN 301 489-17  
EN 60950-1:2001

Applied national standards: DIN VDE 0100  
DIN VDE 0113

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