

# Bourdon Tube Pressure Gauges

Bayonet ring case stainless steel, safety category S3 according to EN 837-1 with indirect limit switch contact assemblies (models E and I) 

**RSCh 63**

This data sheet contains information on the number of the maximum possible contacts, the electrical connections, the options and the ordering information of bourdon tube pressure gauges model RSCh 63 with limit switch contact assembly with 1 or 2 electronic or inductive contacts, furthermore dimensional drawings with the position of the electrical connections.

**Data sheet 1610** contains all details of the available models RSCh without limit switch contact assembly. These information as well as the required ordering information are also valid for the version with limit switch contact assembly, as far as not described differently. A case filling is not available.

In **model overview 9.1000** definitions, applications and functions of the particular models of the limit switch contact assemblies are described generally and in detail. It also contains comprehensive information on the selection, switching functions and minimum spans, operating conditions, Ex-protection, options and others.



with inductive contact

with electronic contact

## Standard Version

### Available limit switch contact assemblies

Indirect (contactless)

Electronic contact **E**  
Inductive contact **I**

### Number of the maximum possible contacts

up to 2 x E  
up to 2 x I

### Case Protection Type (EN 60 529 / IEC 529)

IP 54

### Blow-out Device

Blow-out back; at pressurisation in the case the entire cross section is enabled to the back.

### Nominal Case Size

63 (mm) (2½")

### Window

Polycarbonate

### Adjusting Mechanism Limit Setting Pointer

All instruments have an adjustable lock in the window. The limit setting pointer is set to the value at which the switching operation should happen, externally by the removable key.

### Electrical Connection

lateral at the right side (bottom) of the case,  
limit switch contact assembly with 1 contact: 1m connection cable, 2-wire, cable entry with rubber bushing and pull relief

limit switch contact assembly with 2 contacts: 1m connection cable, 4-wire, screwed cable gland M12x1.5

For identification of an intrinsically safe circuitry limit switch contact assemblies with I-contact are supplied with a blue cable.

## Options

- adjustable lock with non-removable key
- window laminated safety glass without adjustable lock, adjustment after removal of the bayonet ring
- switching distance fixing for 2 contacts upon request
- electronic contacts: PNP switching output as 2-wire connection
- Inductive-contacts: safety version SN or S1N
- more than 1 m connection cable upon request
- plug connector according to DIN EN 175 301-803 construction types A and C, lateral left at 9 o'clock (dimensional drawings upon request) (see also page 2)
- circular plug connector M 12x1 (see also page 2)
- other position of the electrical connections upon request

## Ordering Information

When installing limit switch contact assemblies, the ordering code of the basic model (see data sheet 1610) is extended by

- code letters: **E** electronic contact  
**I** inductive contact
- code number: **1** making contact  
**2** breaking contact  
**11** 1. and 2. making contact  
**12** 1. making contact / 2. breaking contact  
**21** 1. breaking contact / 2. making contact  
**22** 1. and 2. breaking contact

### Examples:

RSCh 63-3, 0-10 bar, G ¼ B, I 2

RSCh 63-3, rFr, 0-25 bar, ¼" NPT, E 21

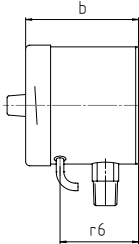
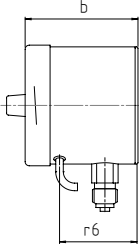
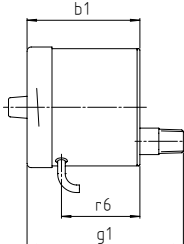
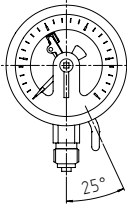
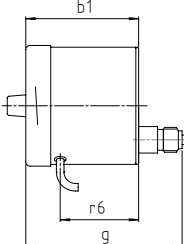
## Details

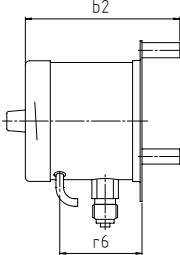
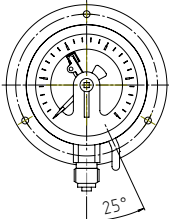
For an optimal function of the instruments with limit switch contact assemblies you have to add the following to the ordering information:

- switching pressure(s)
- switching range(s), in which the limit value(s) are adjusted if it is beyond the adjustment ranges that are defined by us
- if an anticlockwise switching direction is requested

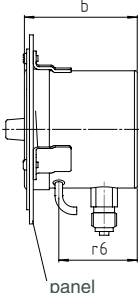
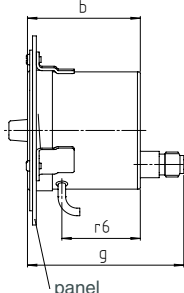
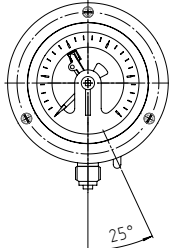
# Case Configurations, Code Letters, Dimensional Data and Weights, Options

Compared to the basic models there are deviations in the front-to-back sizes, see table.  
The remaining dimensions can be seen on data sheet 1610.

Bottom Connection	Lower Back Connection	
Without mounting device		
(no additional code letter)	code letter: r	
		
		

Back flange
code letters: <b>Rh</b>



Case configuration Rh is supplied with 3 loose mounting spacers.

Front flange	
code letters: <b>Fr</b>	code letters: <b>rFr</b>
	
	

Case configurations "Fr" and rFr" are supplied with loose front flange and 3 mounting brackets that are welded to the case.

Dimensional Data (mm / inches) and Weights (kg / lb)					
NCS	b / b1	b2	g <sup>±1</sup> / g1 <sup>±1</sup>	r6	approx. weight <sup>1)</sup> RSCh
63 limit switch contact assemb. with 1 contact	60/2.36	80/3.15	82/3.23	35/1.38	0.30/0.66
63 limit switch contact assemb. with 2 contacts	80/3.15	100/3.94	102/4.02	45/1.77	0.30/0.66

## Options

### Plug connector DIN EN 17 5301-803

- IP 65, 3-pin and protective contact
- available for max. 1 x E / I
- resp. 2x E for option PNP-switching output as 2-wire connection

These plug connectors are mounted lateral at 9 o'clock

#### construction type A



#### construction type C



### Circular plug connector M 12 x 1.5

- IP 67, 4-pin without protective contact
- available for only 2 x E / I
- with 2 m die casted cable upon request

The circular plug connectors have approximately the same position of connection as the cable entries, see above

#### angular cable box



#### straight cable box upon request



<sup>1)</sup> The information relates on the version with bottom connection and limit switch contact assembly with 2 contacts