

## Overview

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>- Level limit detection in bulk goods/ solids</li> <li>- Compact unit</li> <li>- Very robust and reliable sensors</li> <li>- Wide range of applications, no maintenance</li> <li>- Full-, demand-, empty detector</li> </ul> | <ul style="list-style-type: none"> <li>- ATEX, IEC-Ex , FM, CSA, UKEX, TR-CU, INMETRO, KC, CCC</li> <li>- SIL 2</li> <li>- 1935/2004/EC</li> <li>- 2011/65/EU</li> </ul> | <ul style="list-style-type: none"> <li>Gas Ex and Dust Ex approvals</li> <li>Functional safety</li> <li>Food grade material</li> <li>RoHS Conform</li> </ul> |
|---|--|--|

Series	RN 3000	RN 6000
	ATEX/ UKEX/ IEC-Ex/ TR-CU/ INMETRO/ KC/ CCC Small housing Sensitivity >15 g/l (0.9 lb/ft³)	ATEX/ UKEX/ IEC-Ex/ FM/ CSA/ TR-CU/ INMETRO/ KC/ CCC SIL 2 Spacious housing Sensitivity >15 g/l (0.9 lb/ft³)

Housing



Standard



Standard



d (flameproof)



de (flameproof/  
increased safety)

**RN ..001**  
 Short extension  
 length

RN 3001



RN 6001



**RN ..002**  
 Pipe extension  
 vertical

RN 3002



RN 6002



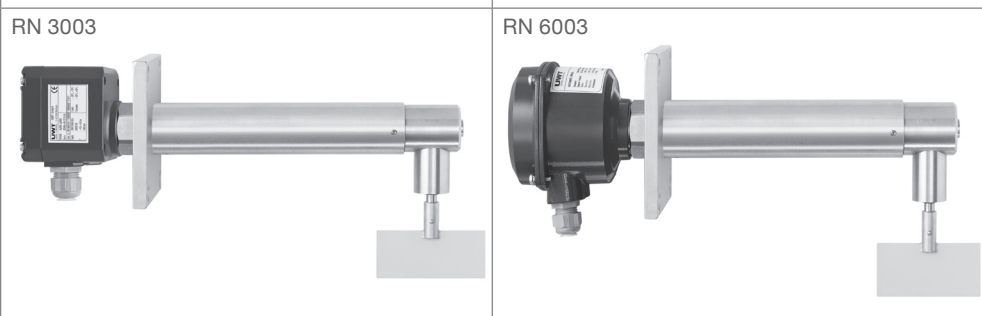
\* without sealing  
 and bearing  
 at tube end (see  
 also option pos.32)

## Overview

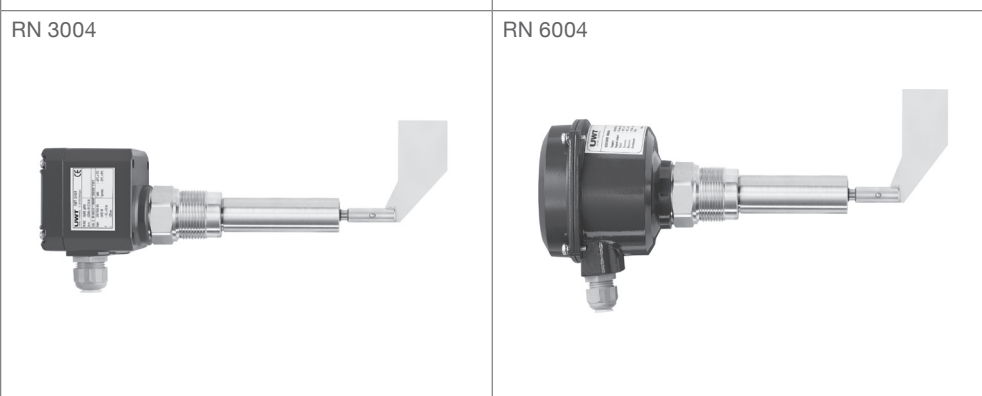
**RN ..002-rope**  
 Rope extension



**RN ..003**  
 Angled extension



**RN ..004**  
 Pipe extension  
 horizontal



**RN 3005**  
 Extra short version  
 for use in  
 loading bellow



## Specifications

Series		RN 3000	RN 6000
Approvals	<b>CE/ UKCA/ TR-CU</b>	•	•
	<b>ATEX/ UKEX/ IEC-Ex/ INMETRO/ TR-CU/ KC/ CCC:</b>		
	Zone 20/21      Dust Ignition Proof	•	•
	Zone 1            Flameproof/ Increased Safety		•
	<b>FM/ CSA:</b>		
	Ordinary Locations		•
	Cl. II, III Div. 1      Dust Ignition Proof		•
	Cl. I Div. 1          Explosionproof		•
	Zone 1            Flameproof/ Increased Safety		•
<b>Functional safety</b> SIL 2 (IEC 61508)		•	

Technical data	Ambient temperature	-20°C .. +70°C (-4°F .. +158°F) -20°C .. +60°C (-4°F .. +140°F) EX -40°C (-40°F) with heating	-20°C .. +50°C (-4°F .. +122°F) -40°C (-40°F) with heating
	Type of protection	IP66 <sup>(5)</sup> and NEMA Type 4/4X (RN6000)	
	Material housing	Aluminium or plastics PA6 (RN3000, optional)	
	Process connection/ extension material	Aluminium or 1.4301 (304)/ 1.4305 (303)/ 1.4541 (321) or 1.4404 (316L)	
	Material of measuring vane and shaft	1.4301 (SS 304)/ 1.4305 (303) or 1.4404 (316L)	

### Cable entries (by default)

Depending on model selected, the following cable entries are supported:

Version:	Cable entries:
Flameproof (pos.2 T,D,L,5)	M20 x 1.5 (1x open conduit + 1x blind plug)
FM and CSA (pos.2 M,N,S,U)	NPT ½" tapered ANSI B1.20.1 (1x open conduit + 1x blind plug)
All other versions	M20 x 1.5 (1x screwed cable gland + 1x blind plug)

## Specifications

Electronics	<b>RN 3000</b>								
	<b>Power supply</b>		<b>Output signal</b>						Fail safe alarm
			SPDT <sup>(1)</sup>	DPDT	PNP	FSH/ FSL <sup>(2)</sup>	Adjustable delay		
	AC version	24 V or 48 V or 115 V or 230 V AC	•	-	-	-	-	-	
	DC version	24 V DC	•	-	-	-	-	-	
	DC version	24 V DC PNP	-	-	•	•	•	-	
	Universal voltage	24 V DC/ 22 .. 230 V AC	•	-	-	•	•	option	
	<b>RN 6000</b>								
	<b>Power supply</b>		<b>Output signal</b>						Fail safe alarm
			SPST	SPDT <sup>(1)</sup>	DPDT	PNP	FSH/ FSL <sup>(2)</sup>	Adjustable delay	
	AC version	24 V or 48 V or 115 V or 230 V AC	-	•	-	-	-	-	
	DC version	24 V DC	-	•	-	-	-	-	
Universal voltage	24 V DC/ 22 .. 230 V AC	-	-	• <sup>(3)</sup>	-	•	•	option	
Universal voltage SIL 2	24 V DC/ 22 .. 230 V AC	•	• <sup>(4)</sup>	-	-	•	•	-	

<sup>(1)</sup> Micro switch, with Universal voltage Relais

<sup>(2)</sup> Switchable signal output (Fail safe high/ low)

<sup>(3)</sup> For Ex approval "Increased safety" (pos.2 R,C,S,K,4) not in combination with option Fail safe alarm

<sup>(4)</sup> Additional output, without SIL

<sup>(5)</sup> For version with plug the type of protection can be lower (see pos.35)

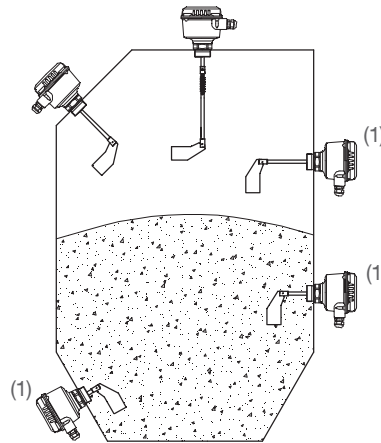
## Specifications

Extensions	RN .001	Process temperature	-40/ -25 .. +80/ 150/ 250/ 350/ 600/ 1,100°C (-40/ -13 .. +176/ 302/ 482/ 662/ 1,112/ 2,012°F)
		Process pressure	-0.9 .. +0.8bar; -0.9 .. +5/ 10 bar ( -13.1 .. +11.6; -13.1 .. +72.5/ 145 psi)
		<b>Length of extension</b>	
		Full detector vertical from the top	70 .. 1,000 mm (2.76 .. 39.4")
		Full detector with pendulum shaft, vertical from the top	300 .. 1,000 mm (11.8 .. 39.4")
		Full detector oblique from the top	70 .. 300 mm (2.76 .. 11.8")
		Full detector horizontal	70 .. 300 mm (2.76 .. 11.8")
		Demand or empty detector horizontal	70 .. 150 mm (2.76 .. 5.9") *
		Empty detector oblique from the bottom	70 .. 150 mm (2.76 .. 5.9") *
	RN .002	Process temperature	-40/ -25 .. +80/ 150/ 250/ 350/ 600/ 1,100°C (-40/ -13 .. +176/ 302/ 482/ 662/ 1,112/ 2,012°F)
		Process pressure	-0.9 .. +0.8 bar; -0.9 .. +5/ 10 bar ( -13.1 .. +11.6; -13.1 .. +72.5/ 145 psi)
		<b>Length of extension</b>	
		Full detector vertical from the top	250 .. 3,000 mm (9.84 .. 118")/ 4,000 mm (158") with support of the extension pipe
	Full detector oblique from the top	250 .. 3,000 mm (9.84 .. 118") with option "Bearing at tube end"	
	RN..002-rope	Process temperature	-40/ -25 .. +80/ 150/ 250/ 350/ 600°C (-40/ -13 .. +176/ 302/ 482/ 662/ 1,112°F)
		Process pressure	-0.9 .. +0.8 bar; -0.9 .. +5/ 10 bar ( -13.1 .. +11.6; -13.1 .. +72.5/ 145 psi)
		<b>Length of extension</b>	
		Full detector vertical from the top	500 .. 10,000 mm (19.7 .. 394") (observe max. traction)
	RN .003	Process temperature	-40/ -25 .. +80/ 150/ 250°C (-40/ -13 .. +176/ 302/ 482°F)
		Process pressure	-0.9 .. +0.8 bar; -0.9 .. +5/ 10 bar ( -13.1 .. +11.6; -13.1 .. +72.5/ 145 psi)
		<b>Length of extension</b>	
		Demand or empty detector horizontal	125 .. 600 mm (4.92 .. 23.6")
		Empty detector oblique from the bottom	125 .. 600 mm (4.92 .. 23.6")
	RN .004	Process temperature	-40/ -25 .. +80/ 150/ 250/ 350/ 600°C (-40/ -13 .. +176/ 302/ 482/ 662/ 1,112°F)
Process pressure		-0.9 .. +0.8 bar; -0.9 .. +5/ 10 bar ( -13.1 .. +11.6; -13.1 .. +72.5/ 145 psi)	
<b>Length of extension</b>			
Full detector vertical from the top		150 .. 600 mm (5.90 .. 23.6")	
Full detector oblique from the top		150 .. 300 mm (5.90 .. 11.8")	
Full detector horizontal		150 .. 300 mm (5.90 .. 11.8")	
Demand or empty detector horizontal		150 .. 300 mm (5.90 .. 11.8") *	
Empty detector oblique from the bottom		150 .. 300 mm (5.90 .. 11.8") *	
RN 3005	Process temperature	-40/ -25 .. +80°C (-40/ -13 .. +176°F)	
	Process pressure	-0.9 .. +0.8 bar (-13.1 .. +11.6 psi)	
	<b>Length of extension</b>		
	Application "Loading bellow"	90 mm (3.5")	

\* A protective canopy is recommended for applications with high mechanical loads

## Applications

**RN ..001**  
 Short extension length

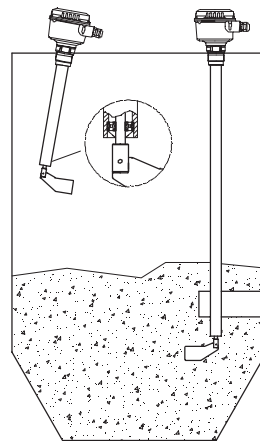


Extension for vertical  
 instalation with pendulum shaft

(1) Not for version 1,100°C

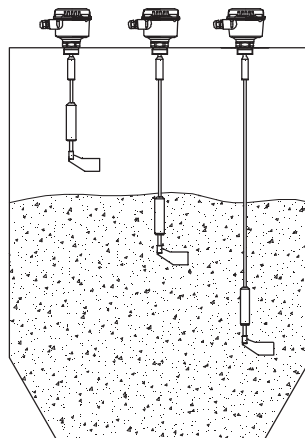
Horizontal mounting:  
 Boot shaped vane  
 recommended  
 (min. mech. loading as  
 the vane aligns itself to  
 the material flow).

**RN ..002**  
 Pipe extension vertical



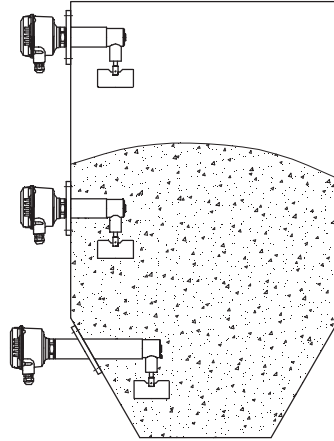
Deviation up to max.  
 10° from vertical  
 instalation only with  
 option „bearing at  
 tube end" possible

**RN ..002 - rope**  
 Rope extension

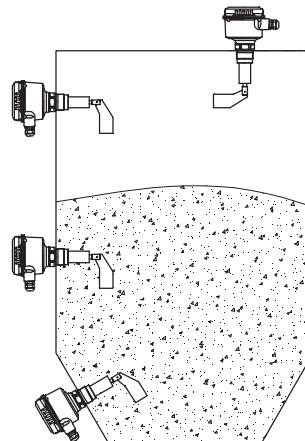


## Applications

**RN ..003**  
Angled extension

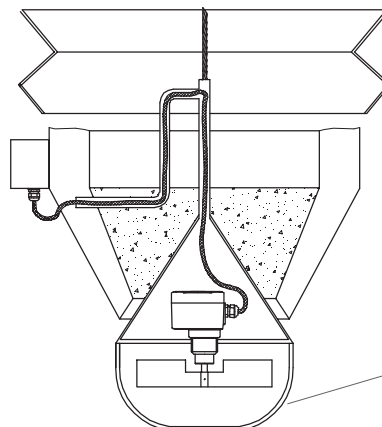


**RN ..004**  
Pipe extension horizontal



Horizontal mounting:  
Boot shaped vane  
recommended  
(min. mech. loading as  
the vane aligns itself to  
the material flow).

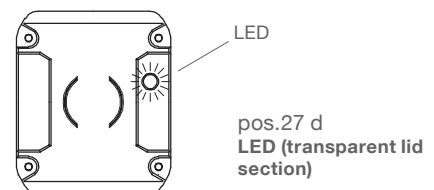
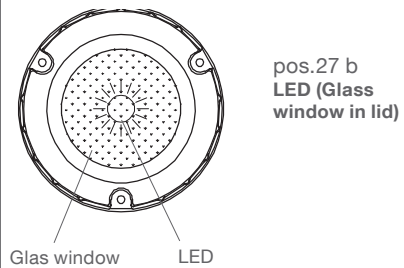
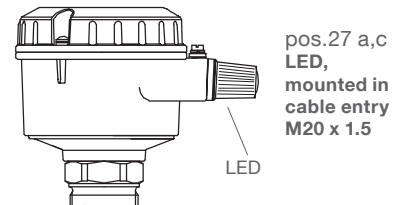
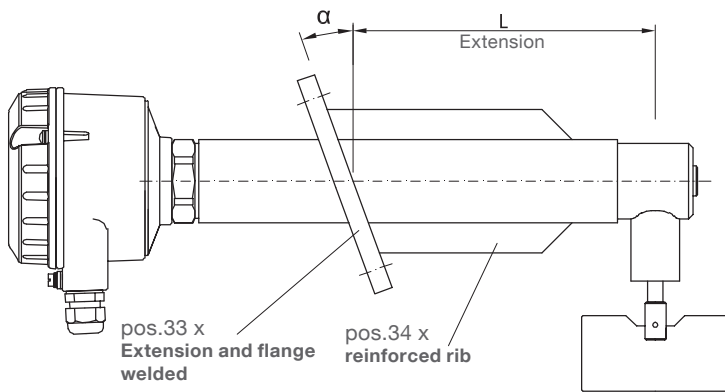
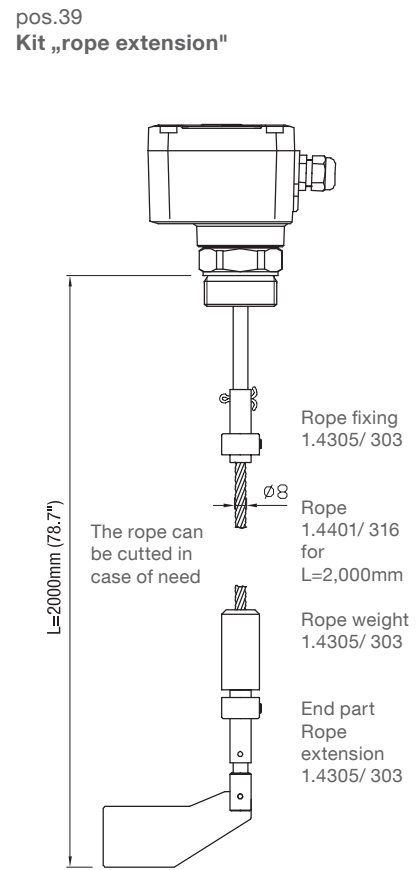
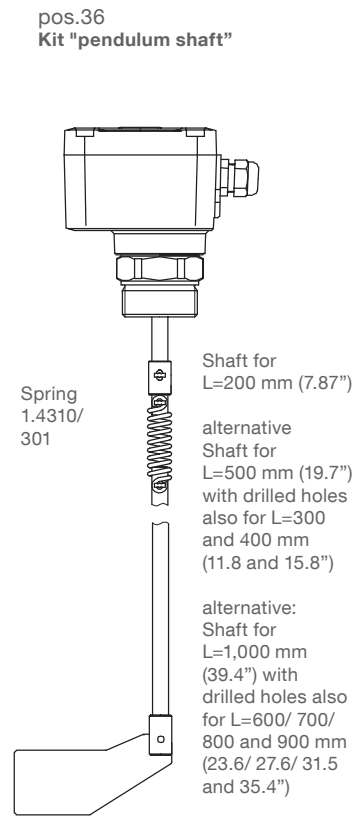
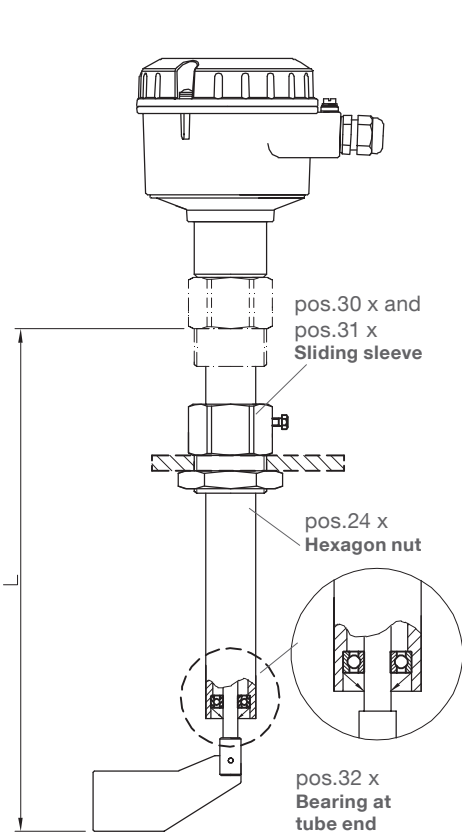
**RN 3005**  
Extra short version



Application  
„Loading bellow“

mechanical  
protection for  
sensor

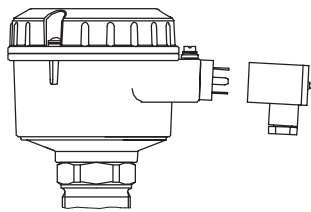
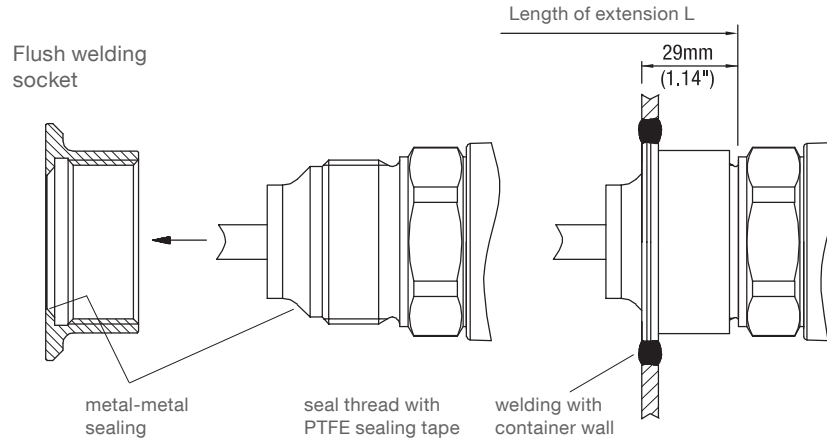
## Options



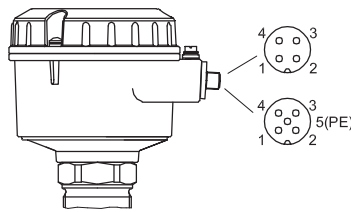


## Options

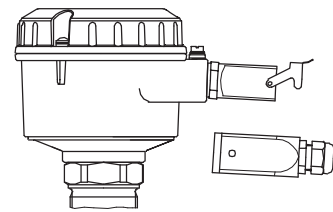
pos.29  
 EHEDG approval  
 (ED class I)



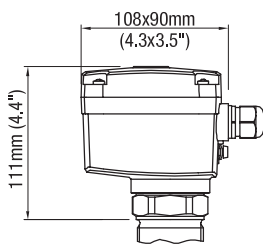
pos.35 x  
**Valve connector**  
 Enclosure plastic  
 Protection IP65



pos.35 a,b  
**Plug M12**  
 Enclosure brass  
 Protection IP66

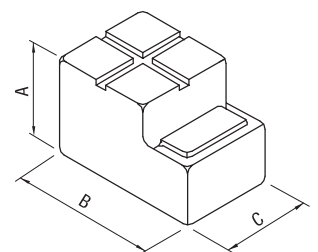


pos.35 c  
**Plug Han 4A**  
 Enclosure zinc  
 Protection IP66



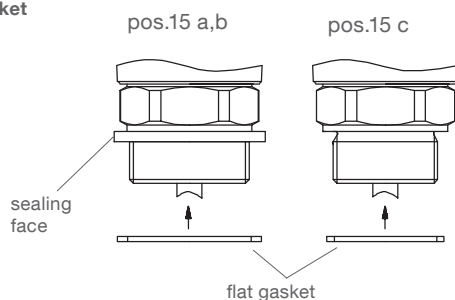
pos.16 a  
 Material of housing  
 Plastics PA6

pos.21 x  
**Weather protection cover**



	RN 3000	RN 6000
A	100 mm (3.9")	130 mm (5.1")
B	165 mm (6.5")	200 mm (7.9")
C	95 mm (3.7")	125 mm (4.9")

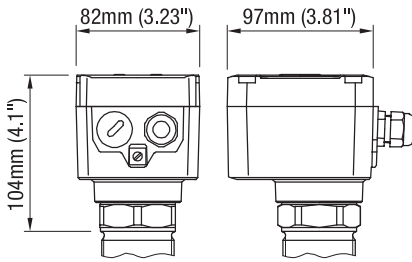
pos.15  
**Flat gasket**



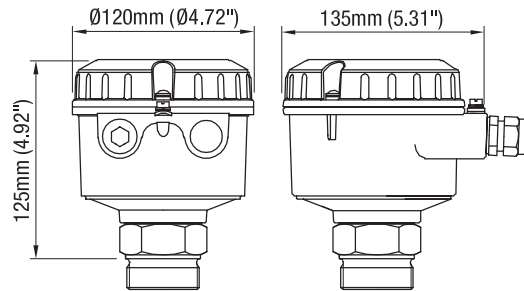
## Dimensions

### Housing versions

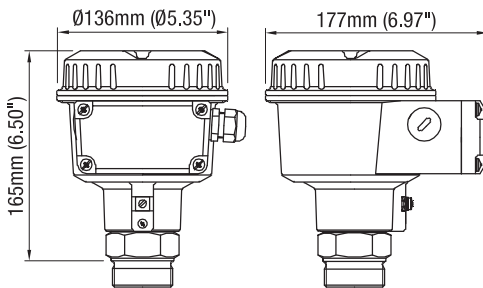
**Series RN 3000**  
Standard



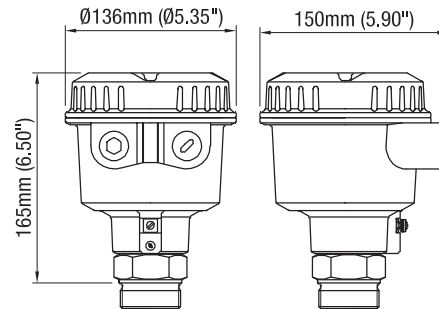
**Series RN 6000**  
Standard



**Series RN 6000**  
de explosionproof with increased  
safety terminal box



**Series RN 6000**  
d flameproof/ explosionproof



### Extensions

**RN ..001**

Process temperature	A
150°C (302°F)	200mm (7.87")
250°C (482°F)	200mm (7.87")
350°C (662°F)	300mm (11.8")
600°C (1112°F)	400mm (15.7")
1.100°C (2012°F)	700mm (27.6")

Thread/ flange

Temperature extended shaft

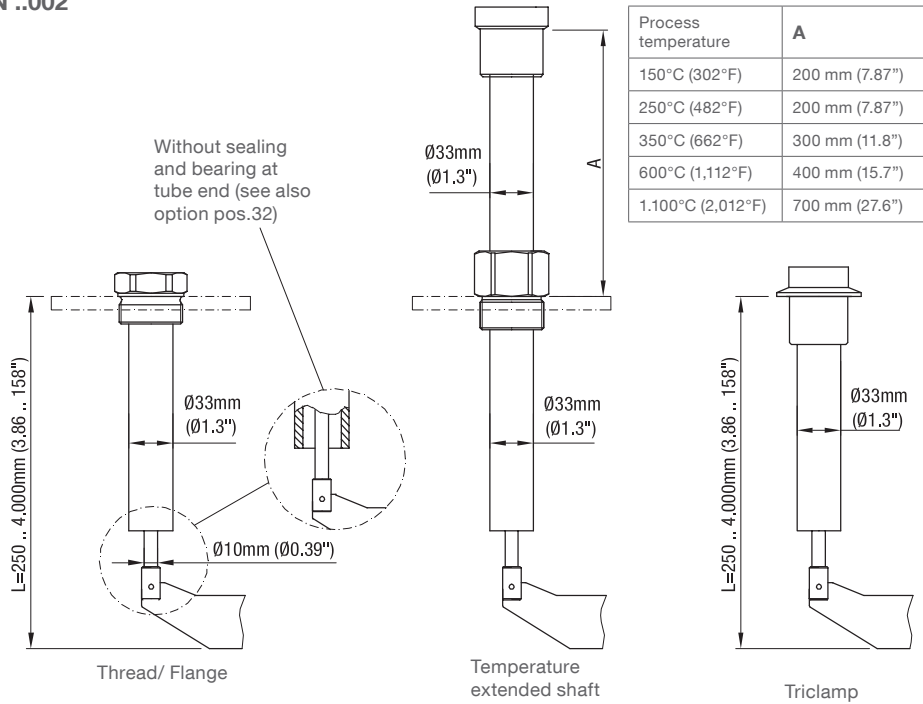
Triclamp

EHEDG ED class I

With measuring vanes "boot shaped" and "hinged vane" the length "L" can be increased by 10mm (0.39"). Details see selection code pos.10.

## Dimensions

### RN ..002

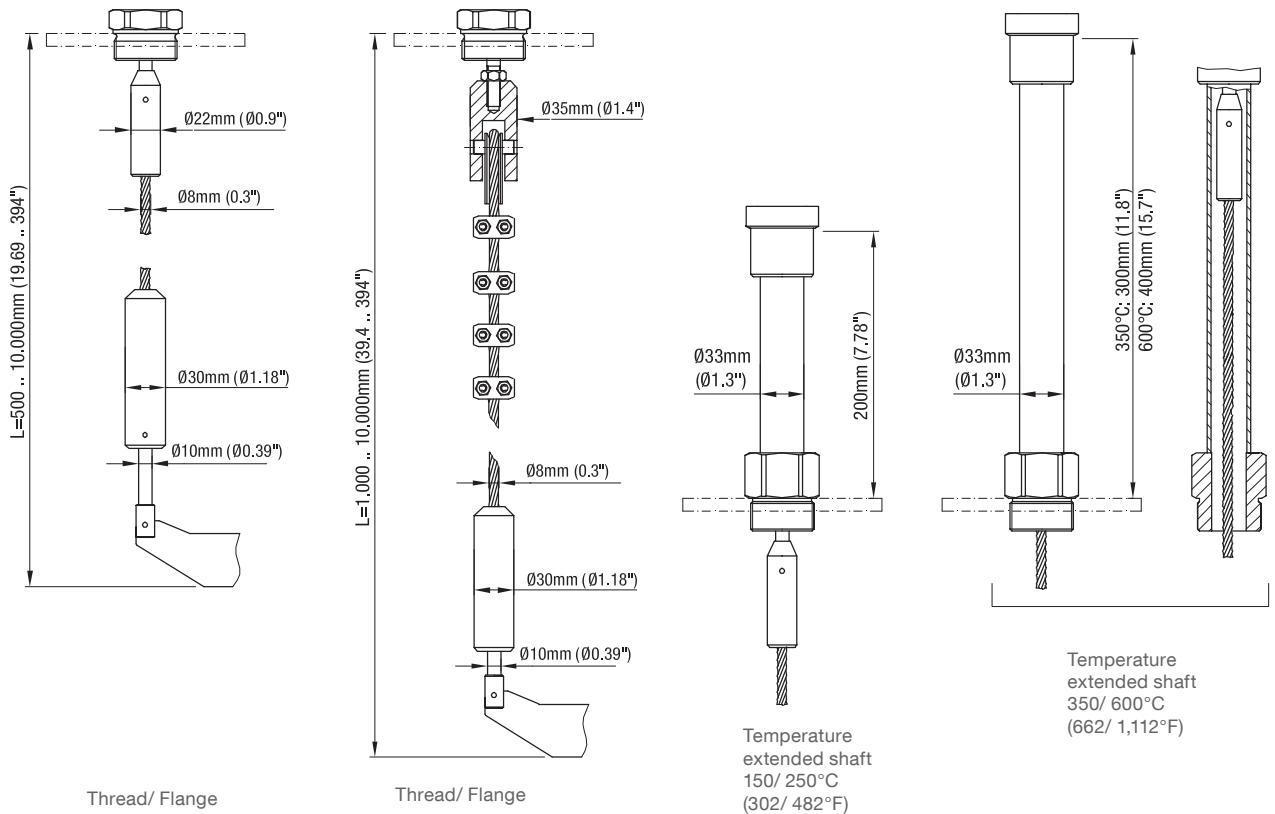


With measuring vanes "boot shaped" and "hinged vane" the length "L" can be increased by 10mm (0.39"). Details see selection code pos.10.

### RN ..002 rope

Type standard (pos.1 C)  
 (max. 4 kN load)

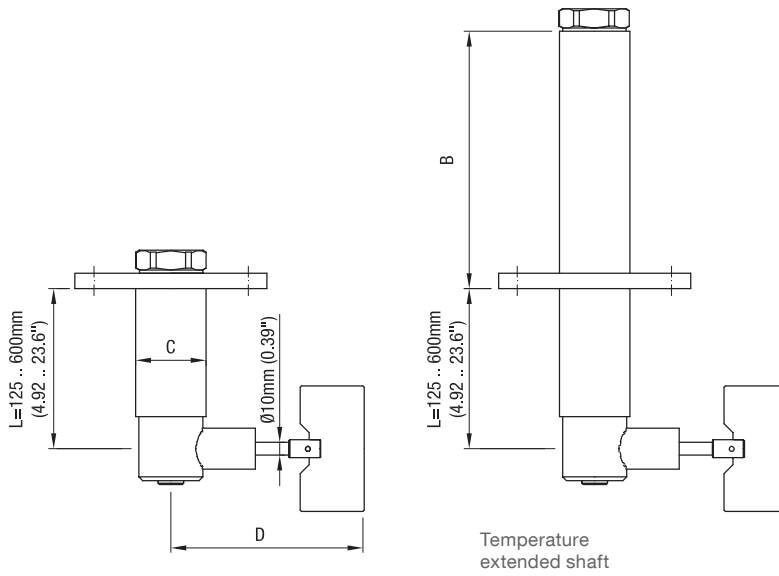
Type reinforced (pos.1 H)  
 (max. 28 kN load)



With measuring vanes "boot shaped" and "hinged vane" the length "L" can be increased by 10mm (0.39"). Details see selection code pos.10.

## Dimensions

### RN ..003

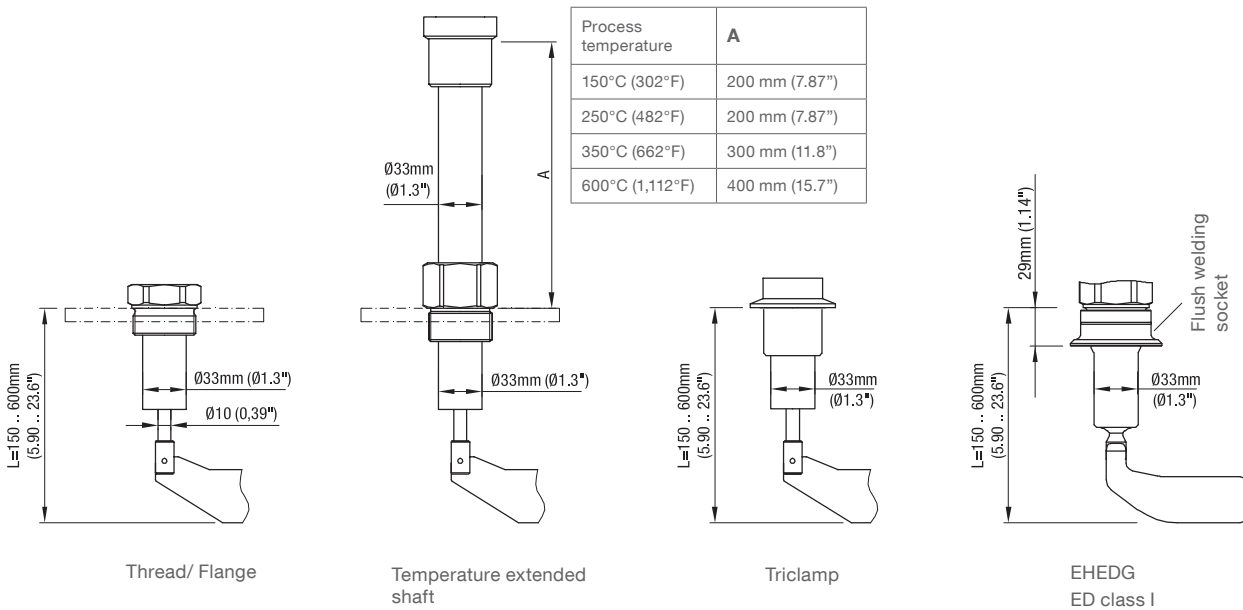


Process temperature	B
80°C (176°F) 0.8 bar (11.6 psi)	10 mm (0.39")
80°C (176°F) 5/ 10 bar (73/ 145 psi)	75 mm (2.95")
150/ 250°C (302/ 482°F) 0.8/ 5/10 bar (11.6/ 73/ 145 psi)	210 mm (8.27")

Material	C
steel	ø55 mm (ø2.17")
aluminium	ø60 mm (ø2.36")

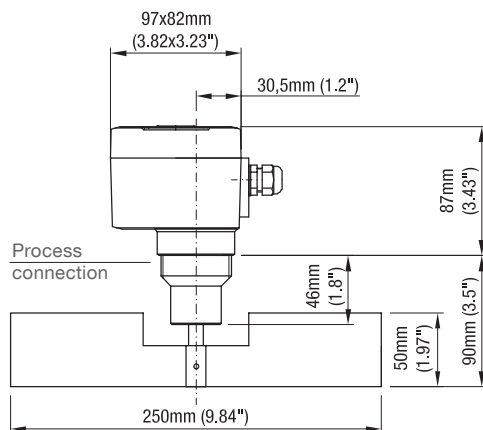
Vane	D
50 mm x .. mm (1.97" x ..")	139 mm (5.47")
98 mm x .. mm (3.86" x ..")	187 mm (7.36")

### RN ..004



With measuring vanes "boot shaped" and "hinged vane" the length "L" can be increased by 10mm (0.39"). Details see selection code pos.10.

### RN 3005

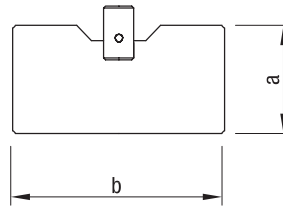


## Dimensions

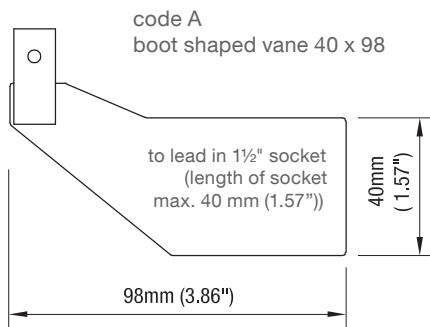
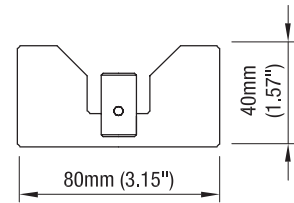
### Measuring vanes

code	type	a	b
B	rectangular	50 mm (1.97")	98 mm (3.86")
C	rectangular	50 mm (1.97")	150 mm (5.90")
E	rectangular	50 mm (1.97")	250 mm (9.84")
F	rectangular	98 mm (3.86")	98 mm (3.86")
G	rectangular	98 mm (3.86")	150 mm (5.90")
I	rectangular	98 mm (3.86")	250 mm (9.84")

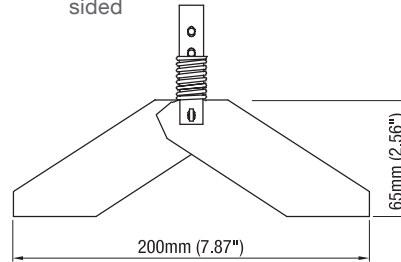
code B,C,E,F,G,I  
 rectangular vane



code P  
 notched 40 x 80

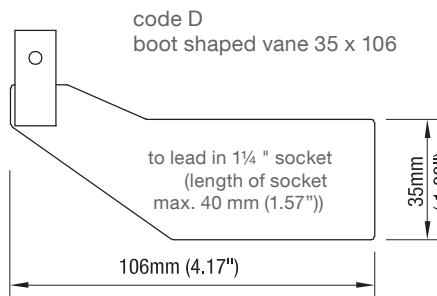


code K  
 hinged vane 98 x 200 double  
 sided

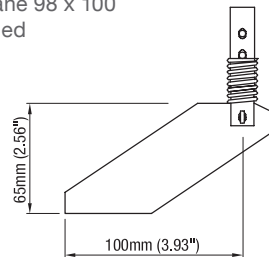


b=37 mm (1.46")  
 for 1½" / 1¼"

b=28 mm (1.1")  
 for 1" / M32 x 1.5

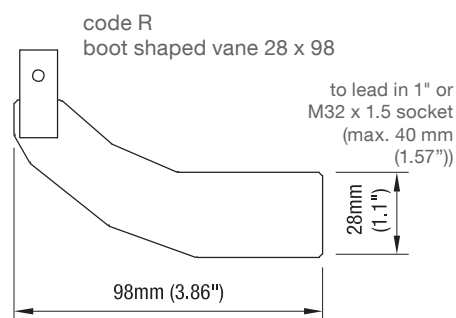


code S  
 hinged vane 98 x 100  
 single sided

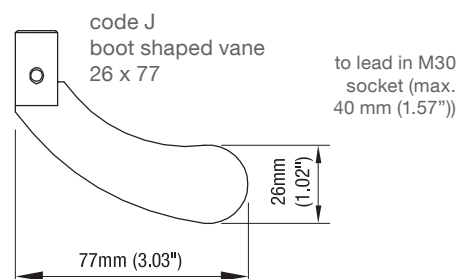
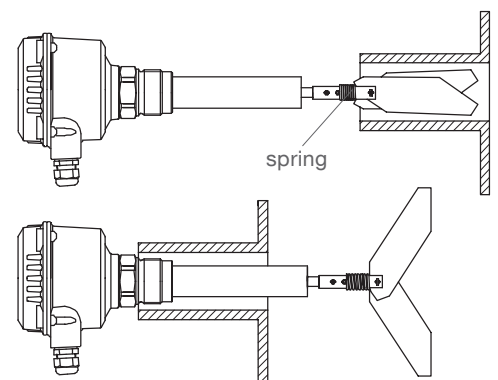


b=37 mm (1.46")  
 für 1½" / 1¼"

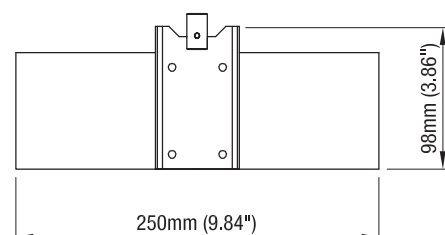
b=28mm (1.1")  
 for 1" / M32 x 1.5



Insertion of the hinged vane  
 through a long socket



code M  
 rubber vane 98 x 250



## Dimensions

**Sensitivity**      The table shows approximate values for the minimum densities, at which a normal function should be possible.

Vane	*Minimum density in g/l = kg/m <sup>3</sup> (lb/ft <sup>3</sup> ) (without guarantee)			
	Vane completely covered with bulk material		Bulk material is 100 mm (3.93") above covered vane	
	Spring adjustment		Spring adjustment	
	fine	medium (factory setting)	fine	medium (factory setting)
Boot shaped vane 40 x 98	200 (12)	300 (18)	100 (6)	150 (9)
Boot shaped vane 35 x 106	200 (12)	300 (18)	100 (6)	150 (9)
Boot shaped vane 28 x 98	300 (18)	500 (30)	150 (9)	200 (12)
Boot shaped 26 x 77	350 (21)	560 (33)	200 (12)	250 (15)
Vane 50 x 98	300 (18)	500 (30)	150 (9)	250 (15)
Vane 50 x 150	80 (4,8)	120 (7.2)	40 (2.4)	60 (3.6)
Vane 50 x 250	30 (1.8)	50 (3)	15 (0,9)	25 (1.5)
Vane 98 x 98	100 (6)	150 (9)	50 (3)	75 (4.5)
Vane 98 x 150	30 (1.8)	50 (3)	15 (0,9)	25 (15)
Vane 98 x 250	20 (1.2)	30 (1.8)	15 (0,9)	15 (0.9)
Hinged vane 98 x 200 b=37 double sided	70 (4.2)	100 (6)	35 (2.16)	50 (3)
Hinged vane 98 x 200 b=28 double sided	100 (6)	150 (9)	50 (3)	75 (4.5)
Hinged vane 98 x 100 b=37 single sided	200 (12)	300 (18)	100 (6)	150 (9)
Hinged vane 98 x 100 b=28 single sided	300 (18)	500 (30)	150 (9)	250 (15)

The above mentioned data is a guideline and is for loose, non compacted material.

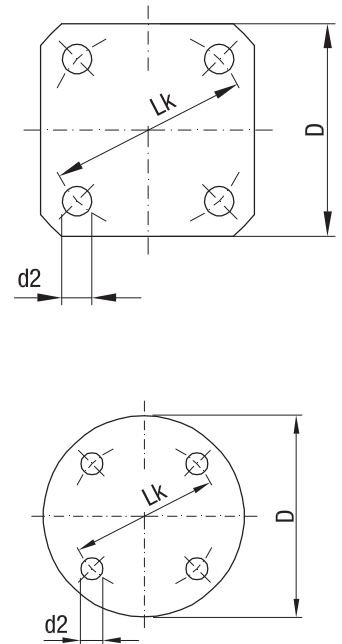
During the filling the bulk density can change (e. g. for fluidised material).

\*For versions with option 26 (heating of housing) the above mentioned data must be multiplied by 1.5.

## Dimensions / Detailed Ex-markings

### Flanges

Code	Type	Number of holes	d2	Lk	D	T (thickness)
H	flange 150x150	4	18 mm (0.71")	170 mm (6.69")	150 mm (5.90")	10 mm (0.39")
I	flange 150x150	4	14 mm (0.55")	170 mm (6.69")	150 mm (5.90")	10 mm (0.39")
K	flange DN32 PN6	4	14 mm (0.55")	90 mm (3.54")	120 mm (4.72")	14 mm (0.55")
N	flange DN50 PN16	4	18 mm (0.71")	125 mm (4.92")	165 mm (6.50")	18 mm (0.71")
L	flange DN100 PN6	4	18 mm (0.71")	170 mm (6.69")	210 mm (8.27")	16 mm (0.63")
M	flange DN100 PN16	8	18 mm (0.71")	180 mm (7.09")	220 mm (8.66")	20 mm (0.79")
S	flange 2" 150lbs	4	19.1 mm (0.75")	120.7 mm (4.75")	152.4 mm (6.01")	19.1 mm (0.75")
T	flange 3" 150lbs	4	19.1 mm (0.75")	152.4 mm (6.01")	190.5 mm (7.5")	23.9 mm (0.94")
U	flange 4" 150lbs	8	19.1 mm (0.75")	190.5 mm (7.5")	228.6 mm (9.0")	23.9 mm (0.94")



### Detailed Ex-markings

Code	Certificate	Housing
pos.2 0	CE/ UKCA/ TR-CU	Standard
pos.2 W	ATEX II 1/2D Ex ta/tb IIIC T! Da/Db	Standard
pos.2 R	ATEX II 2G Ex db eb IIC T! Gb and ATEX II 1/2D Ex ta/tb IIIC T! Da/Db	de
pos.2 T	ATEX II 2G Ex db IIC T! Gb and ATEX II 1/2D Ex ta/tb IIIC T! Da/Db	d
pos.2 A	IEC-Ex ta/tb IIIC T! Da/Db	Standard
pos.2 C	IEC-Ex db eb IIC T! Gb and IEC-Ex ta/tb IIIC T! Da/Db	de
pos.2 D	IEC-Ex db IIC T! Gb and IEC-Ex ta/tb IIIC T! Da/Db	d
pos.2 M	FM/ CSA general purpose	Standard
pos.2 N	FM/ CSA DIP Cl. II, III Div. 1 Gr. E,F,G CSA Ex DIP A20/21	Standard
pos.2 S	FM Cl. I Zone 1 AEx de IIC and FM/ CSA DIP Cl. II,III Div. 1 Gr. E,F,G CSA Cl. I Zone 1 Ex de IIC and CSA Ex DIP A20/21	de
pos.2 U	FM XP Cl. I,II,III Div. 1 Gr. B-G and FM Cl. I Zone 1 AEx d IIC CSA XP Cl. I,II,III Div. 1 Gr. B-G CSA Cl. I Zone 1 Ex d IIC and CSA Ex DIP A20/21	d
pos.2 E	TR-CU Ex ta/tb IIIC T90°C...T250°C Da/Db X	Standard
pos.2 K	TR-CU 1Ex d e IIC T5...T2 Gb X Ex ta/tb IIIC T90°C...T250°C Da/Db X	de
pos.2 L	TR-CU 1Ex d IIC T5...T2 Gb X Ex ta/tb IIIC T90°C...T250°C Da/Db X	d
pos.2 2	+pos.20 a INMETRO Ex ta/tb IIIC T250°C...T90°C Da/Db IP6X	Standard
pos.2 4	+pos.20 a INMETRO Ex db eb IIC T5...T2 Gb IP66 Ex ta/tb IIIC T250°C...T90°C Da/Db IP6X	de
pos.2 5	+pos.20 a INMETRO Ex db IIC T5...T2 Gb IP66 Ex ta/tb IIIC T250°C...T90°C Da/Db IP6X	d
pos.2 2	+pos.20 b KC Ex t IIIC T!	Standard
pos.2 5	+pos.20 b KC Ex d IIC T! Ex t IIIC T!	d
pos.2 2	+pos.20 c CCC Ex ta/tb IIIC T! Da/Db	Standard
pos.2 5	+pos.20 c CCC Ex db IIC T! Gb Ex ta/tb IIIC T! Da/Db	d
pos.2 2	+pos.20 e UKEX II 1/2D Ex ta/tb IIIC T! Da/Db	Standard
pos.2 4	+pos.20 e UKEX II 2G Ex db eb IIC T! Gb and UKEX II 1/2D Ex ta/tb IIIC T! Da/Db	de
pos.2 5	+pos.20 e UKEX II 2G Ex db IIC T! Gb and UKEX II 1/2D Ex ta/tb IIIC T! Da/Db	d

## Electrical installation Series RN 3000

**Version:**

- AC
- DC
- **Universal voltage**

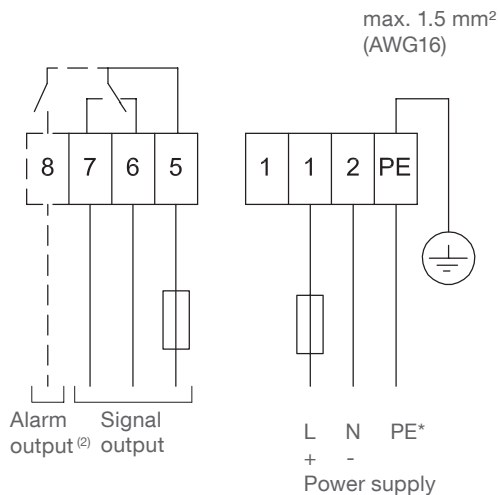
**Power supply:**

- **AC version:**  
 24 V or 48 V or 115 V or 230 V 50/60 Hz max. 4 VA  
 All voltages  $\pm 10\%$  <sup>(1)</sup>  
 Supply voltage as selected.  
 External fuse: max. 10 A, fast or slow, HBC, 250 V
- **DC version:**  
 24 V DC  $\pm 15\%$  <sup>(1)</sup> max. 2.5 W  
 External fuse: not required
- **Universal voltage:**  
 24 V DC  $\pm 15\%$  <sup>(1)</sup> max. 4 W  
 22 .. 230 V 50/60 Hz  $\pm 10\%$  <sup>(1)</sup> max. 10 VA  
 External fuse: not required

<sup>(1)</sup> including  $\pm 10\%$  of EN 61010

**Signal and alarm output:**

Micro switch or relay, SPDT contact  
 max. 250 V AC, 2 A, 500 VA ( $\cos\phi = 1$ )  
 max. 250 V DC, 2 A, 60 W  
 External fuse: max. 10 A, fast or slow, HBC, 250 V



<sup>(2)</sup> With option Fail safe alarm (rotation control)  
 Contact open when de-energised

**Version:**

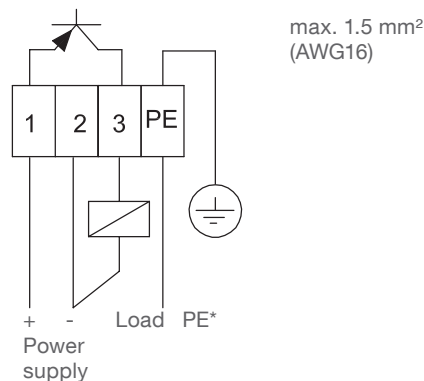
- PNP

**Power supply:**

24 V DC  $\pm 15\%$  <sup>(1)</sup>  
<sup>(1)</sup> including  $\pm 10\%$  of EN 61010  
 Input current: max. 0.6 A

**Signal output:**

Load max. 0.4 A  
 Output voltage equal to input voltage, drop  $< 2.5$  V  
 Open collector  
 Protected against short circuit and overload



**\* Protection against static charge:**

The PE terminal of the unit must be grounded to avoid static charging of the unit.  
 This is particularly important for applications with pneumatic conveying.



## Electrical installation Series RN 6000

### Version:

- AC
- DC

### Power supply:

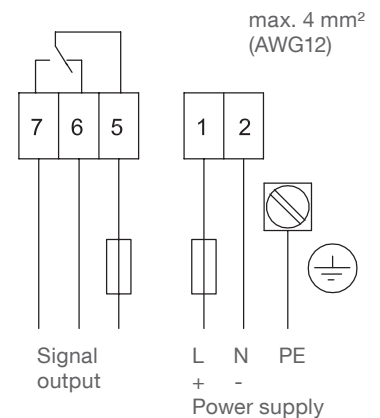
- **AC version:**  
 24 V or 48 V or 115 V or 230 V 50/ 60 Hz max. 4 VA  
 All voltages  $\pm 10\%$  <sup>(1)</sup>  
 Supply voltage as selected.  
 External fuse: max. 10 A, fast or slow, HBC, 250 V

- **DC version:**  
 24 V DC  $\pm 15\%$  <sup>(1)</sup> max. 2.5 W  
 External fuse: not required

<sup>(1)</sup> including  $\pm 10\%$  of EN 61010

### Signal output:

Micro switch, SPDT contact  
 max. 250 V AC, 5 A, non inductive  
 max. 30 V DC, 4 A, non inductive  
 External fuse: max. 10 A, fast or slow, HBC, 250 V



### Version:

- Universal voltage  
 (ohne SIL 2)

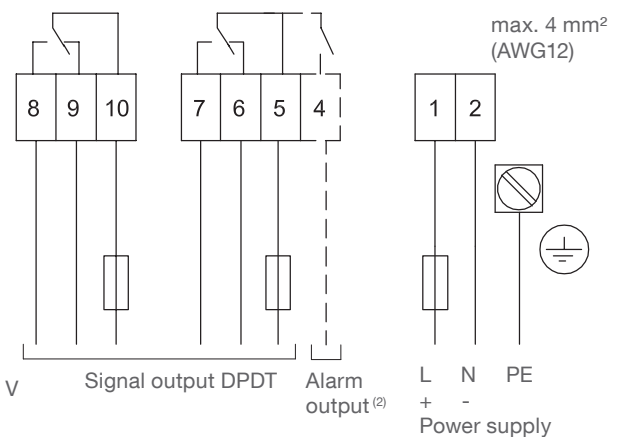
### Power supply:

24 V DC  $\pm 15\%$  <sup>(1)</sup> max. 4 W  
 22 .. 230 V 50/ 60 Hz  $\pm 10\%$  <sup>(1)</sup> max. 10 VA

<sup>(1)</sup> including  $\pm 10\%$  of EN 61010

### Signal and alarm output:

Relay DPDT contact  
 max. 250 V AC, 5 A, non inductive;  
 max. 30 V DC, 4 A, non inductive  
 External fuse: max. 10 A, fast or slow, HBC, 250 V



<sup>(2)</sup> With option Fail safe alarm (rotation control)  
 Contact open when de-energised

### Version:

- Universal voltage  
 SIL 2

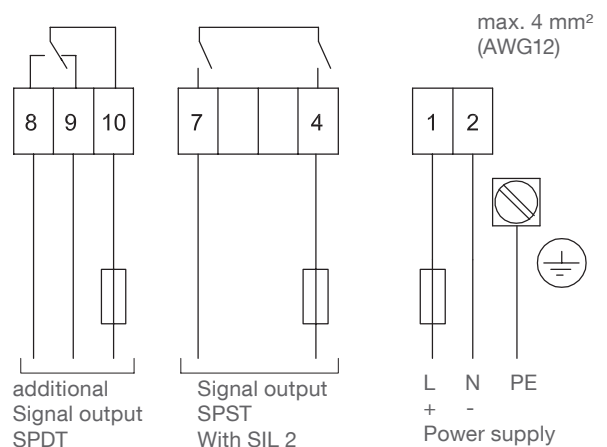
### Power supply:

24 V DC  $\pm 15\%$  <sup>(1)</sup> max. 4 W  
 22 .. 230 V 50/ 60 Hz  $\pm 10\%$  <sup>(1)</sup> max. 10 VA

<sup>(1)</sup> including  $\pm 10\%$  of EN 61010

### Signal output:

Relay SPST/ SPDT  
 max. 250 V AC, 5 A, non inductive;  
 max. 30 V DC, 4 A, non inductive  
 External fuse:  
 max. 10 A, fast or slow, HBC, 250 V



- ! **\* Protection against static charge:**  
 The PE terminal of the unit must be grounded to avoid static charging of the unit.  
 This is particularly important for applications with pneumatic conveying.