

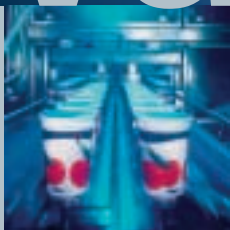
# SIWAREX R

Load cells

for all industrial weighing tasks



# siwarex r



**SIEMENS**

**If you're looking for load cells –**  
we have the right ones.  
At the right price.

What do you expect from load cells? Accurate measurement above all. And dependable performance year after year, even in harsh environments. Because load cells usually have to be installed in awkward locations where they're not easy to replace. Obviously, the price has to fit your budget too.

**A complete system**

SIWAREX R, the load cell product range from Siemens, provides the right load cell for any particular application.

Install them. Connect them. Forget them. That's the kind of load cells you get with SIWAREX R. Need more good reasons? We can deliver the load cell of your choice in a couple of days – anywhere in the world.

**Get your load cells and electronics from a single source!**

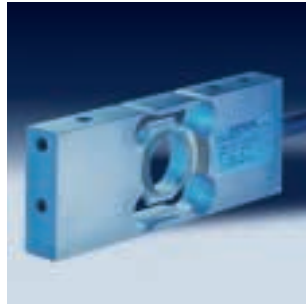
You can choose from our extensive, performance-graded line of weighing and batching systems – with everything you need for the whole range of tasks in your industry: High precision and reproducibility of weighing and batching processes, features and functions to suit applications from simple weighing to complex batching tasks, from quantity and completeness checking or inventory tracking of a wide range of materials to loading processes.

**And that's not all!**

You can reap the benefits of a totally integrated and coordinated system. Because we deliver solutions that perform not just integrated weighing functions but other automation tasks as well, and with the greatest of ease – as SIWAREX weighing modules are integrated into the SIMATIC automation system.

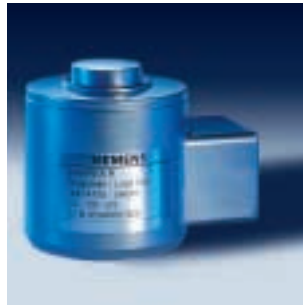


## SIWAREX R at a glance:



	Type SP	Type BB	Type SB
	Single point	Bending beam	Shear beam
Nominal load ( $E_{max}$ )	6 kg and 12 kg	10 kg–350 kg	500 kg–5 t
Accuracy class	C3 according to OIML R60	C3 according to OIML R60	C3 according to OIML R60
Maximum scale interval (n)	3000	3000	3000
Minimum scale interval ( $v_{min}$ )	$E_{max}/12,000$	$E_{max}/15,000$	$E_{max}/10,000$
Minimum utilization range	25 %	20 %	30 %
Supply voltage ( $U_{sr}$ )	5...15 V	5...15 V	5...18 V
Nominal characteristic ( $C_n$ )	2 mV/V	2 mV/V	2 mV/V
Degree of protection	IP66/IP68	IP66/IP68	IP66/IP68
EEx(i) certification (option)	EEx ib IIC T6	EEx ib IIC T6	EEx ib IIC T6





Type RN			Type CC		Type K
Bending ring			Can compression		Can cell
60 kg–280 kg	0.5 t–10 t	13 t–60 t	10 t–60 t	100 t	2.8 t–280 t
C3 according to OIML R60			C3 acc. to OIML R60	C1 acc. to OIML R60	0.1 %
3000	3000	3000	3000	3000	–
$E_{\max}/17,500$	$E_{\max}/10,000$	$E_{\max}/17,500$	$E_{\max}/12,500$	$E_{\max}/10,000$	–
17 %	30 %	17 %	24 %	10 %	–
5...30 V	5...30 V	5...30 V	5...25 V	5...25 V	6...12 V
1 mV/V	2 mV/V	2 mV/V	2 mV/V	2 mV/V	1.5 mV/V
IP66/IP68	IP66/IP68	IP66/IP68	IP66/IP68	IP66/IP68	IP65
EEx ib IIC T6	EEx ib IIC T6	EEx ib IIC T6	EEx ib IIC T6	EEx ib IIC T6	–



## 6 different types, to give you first-class performance in all categories.



Whether it's 6 kg or 280 t: You can always be sure of the accuracy of the indicated weight, which is measured with strain gauges. A standard feature in our SIWAREX R load cells is OIML certification for use in Class III scales, which are subject to official calibration with a resolution of  $n = 3000$ . And all our load cells are precalibrated at the factory, so they can be easily and accurately connected in parallel.

### Fit for special applications

Our SIWAREX load cells are hermetically sealed in stainless-steel casings. So they're superbly well-suited for a great diversity of applications, including in the food and chemical industries. Type K load cells are specifically designed for the iron and steel industry and for waste management applications. Of course we also have load cells for use in hazardous environments. And installation is no problem: Our load cells are easy to integrate into your scales – thanks to their compact design and an abundance of mounting accessories.

### Precision even at maximum load

No matter what kind of scales you want to equip – whether they're bin type or platform, monorail suspension, crane or vehicle scales – you'll always find the right SIWAREX R load cell. You have a choice of six different types in a range of weight categories:

### SP-single point

6 kg–12 kg  
For small platform scales.

### BB-bending beam

10 kg–350 kg  
Perfect for filling systems and small platform scales.

### SB-shear beam

0.5 t–5 t  
Rugged and highly insensitive to lateral forces, hence ideal for platform scales.

### RN-ring cell

60 kg–60 t  
A very low profile makes this cell easy to use in bin and platform scales.

### CC-can compression cell

10 t–100 t  
Especially suited for motor vehicle and rail car scales.

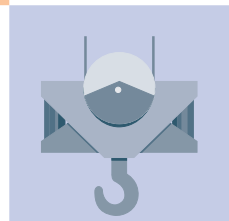
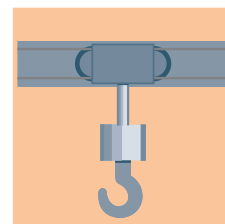
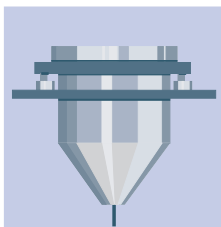
### K-can cell

2.8 t–280 t  
Extremely compact. Suitable for industrial applications.  
Accuracy 0.1 %.

The optional mounting accessories are specially designed for each type of load cell, with features that perform important functions in load cell installations. Such as load applying elements, which ensure that forces are introduced into the load cell correctly, and steadying devices to prevent tilting.

### Last, but not least:

If you need advice on installation, construction, conversion or commissioning, we'll be glad to help. With our expertise and extensive range of services, we can give you valuable support in solving problems in your plant.



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## **Siemens AG**

Automation and Drives (A&D)  
Process Instrumentation and Analytics  
D-76181 Karlsruhe

Phone +49 (721) 5 95-28 11  
Fax +49 (721) 5 95-29 01

[www.siemens.com/siwarex](http://www.siemens.com/siwarex)  
[siwarex.hotline@khe.siemens.de](mailto:siwarex.hotline@khe.siemens.de)

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