

# 7



## FOOD (KITCHEN, STAINLESS STEEL, IP65...68 PROTECTION)

### KERN scales – without fear of water!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts etc. are all natural enemies of a scale. In industries such as the food, chemical, manufacturing industries, etc., scales must be able to cope with these stressors without it affecting their performance.





For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stressors a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage being caused to the unit.

These levels of protection are described in the following standard: “DIN EN 60529: protection types through housing” The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68. The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your ► **HACCP**-compliant quality system.

► [See the Glossary](#)

### Extract from the standard: “DIN EN 60529: protection types through housing”:

KERN-Pictogram	1. digit	Specification	2. digit	Specification
	6	Dustproof	5	Protection against jets of water (nozzle) from any angle (cleaning with a damp cloth)
	6	Dustproof	6	Protection against powerful jets of water
	6	Dustproof	7	Protection against temporary immersion
	6	Dustproof	8	Protection against continuous immersion (designed for continuous use in wet areas, submersion is possible depending on the pressure (water depth)

# Quick-Finder Food (kitchen/stainless steel/IP65...68 protection)

Readout	Weighing range	Model	Page	M							
[d]	[Max]	<b>KERN</b>									
g	kg										
0,1	0,5	<b>FOB 500-1S</b>	61	●							●
0,1	0,5	<b>FOB 0.5K-4NS</b>	61	●				●			●
0,2	1,5	<b>WTB 1K-4N</b>	63	●			●				○
0,2	1,5	<b>FFN 1K-4N</b>	64	●			●				●
0,2	3	<b>FPB 3K-4</b>	62	●			●		●		●
0,5	1,5	<b>WTB 1K-4NM</b>	63	○	●		●				○
0,5	1,5	<b>FFN 1K-4NM</b>	64	○	●		●				●
0,5	3	<b>WTB 3K-4N</b>	63	●			●				○
0,5	3	<b>FFN 3K0.5IPN</b>	64	●			●				●
0,5	6	<b>FPB 6K-3</b>	62	●			●		●		●
0,5	6	<b>SXC 6K-4</b>	66	●	○		●				○
1	3	<b>FPB 3K-3M</b>	62	○	●		●		●		●
1	3	<b>WTB 3K-3NM</b>	63	○	●		●				○
1	3	<b>FFN 3K1IPM</b>	64	○	●		●				●
1	5	<b>FGE 5K-3S05</b>	60	●							●
1	5	<b>FOB 5K1S</b>	61	●							●
1	5	<b>FOB 5K-3NS</b>	61	●			●				●
1	6	<b>WTB 6K-3N</b>	63	●			●		●		○
1	6	<b>FFN 6K1IPN</b>	64	●			●		●		●
1	10	<b>SFB 10K1HIP</b>	65	●	○		●				●
1	15	<b>FGE 10K-3S05</b>	60	●							●
1	15	<b>FPB 15K-3</b>	62	●			●		●		●
1	15	<b>SXC 10K-3</b>	66	●	○		●				○
1	15	<b>SXC 10K-3L</b>	66	●	○		●				○
1   2	3   6	<b>SXC 6K-3M</b>	66	○	●	○	●				○
2	6	<b>FPB 6K-3M</b>	62	○	●		●		●		●
2	6	<b>WTB 6K-3NM</b>	63	○	●		●				○
2	6	<b>FFN 6K2IPM</b>	64	○	●		●				●
2	15	<b>WTB 10K-3N</b>	63	●			●		●		○
2	15	<b>FFN 15K2IPN</b>	64	●			●		●		●
2	20	<b>SFB 20K2HIP</b>	65	●	○		●				●
2	30	<b>FPB 30K-3</b>	62	●			●		●		●
2	30	<b>SXC 30K-3</b>	66	●	○		●				○
2	30	<b>SXC 30K-3L</b>	66	●	○		●				○
2   5	6   15	<b>SXC 10K-3M</b>	66	○	●	○	●				○
2   5	6   15	<b>SXC 10K-3LM</b>	66	○	●	○	●				○
5	15	<b>FPB 15K-3M</b>	62	○	●		●		●		●
5	15	<b>WTB 10K-3NM</b>	63	○	●		●				○
5	15	<b>FFN 15K5IPM</b>	64	○	●		●				●
5	15	<b>SFB 15K5HIPM</b>	65	○	●	○	●				●
5	25	<b>FFN 25K5IPN</b>	64	●			●		●		●
5	30	<b>WTB 30K-3N</b>	63	●			●		●		○
5	50	<b>SFB 50K5LHIP</b>	65	●	○		●				●
5	50	<b>SFB 50K5HIP</b>	65	●	○		●				●
5	50	<b>SFB 50K-3XL</b>	65	●	○		●				●
5	60	<b>SXC 60K-3</b>	66	●	○		●				○
5	60	<b>SXC 60K-3L</b>	66	●	○		●				○
5   10	15   30	<b>SXC 30K-3M</b>	66	○	●	○	●				○
5   10	15   30	<b>SXC 30K-3LM</b>	66	○	●	○	●				○
10	25	<b>FFN 25K10IPM</b>	64	○	●		●				●
10	30	<b>FPB 30K-2M</b>	62	○	●		●		●		●
10	30	<b>WTB 30K-2NM</b>	63	○	●		●		●		○
10	30	<b>SFB 30K10HIPM</b>	65	○	●	○	●				●
10	100	<b>SFB 100K10HIP</b>	65	●	○		●				●
10	100	<b>SFB 100K-2XL</b>	65	●	○		●				●
10	150	<b>SXC 100K-2</b>	66	●	○		●				○
10	150	<b>SXC 100K-2L</b>	66	●	○		●				○
10   20	30   60	<b>SXC 60K-2M</b>	66	○	●	○	●				○
10   20	30   60	<b>SXC 60K-2LM</b>	66	○	●	○	●				○
20	60	<b>SFB 60K20LHIPM</b>	65	○	●	○	●				●
20	60	<b>SFB 60K-2XLM</b>	65	○	●	○	●				●
20	300	<b>SXC 300K-2</b>	66	●	○		●				○
20   50	60   150	<b>SXC 100K-2M</b>	66	○	●	○	●				○
20   50	60   150	<b>SXC 100K-2LM</b>	66	○	●	○	●				○
50	150	<b>SFB 100K-2HM</b>	65	○	●	○	●				●
50	150	<b>SFB 100K-2LM</b>	65	○	●	○	●				●
50	150	<b>SFB 100K-2XLM</b>	65	○	●	○	●				●
50   100	150   300	<b>SXC 300K-2M</b>	66	○	●	○	●				○

For an explanation on the pictos, see the front flap

SET  
5x



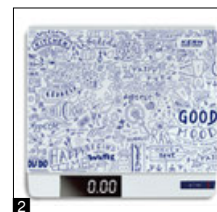
1 FGE 5K-3S05



2 FGE 10K-3S05



1



2



3



3

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## Precise design kitchen scale for kitchen, cafeteria, gastronomy

### Features

- FGE 10K-3S05: Weighing plate made out of safety glass
- Easy and hygienic cleaning
- Low overall height for secure footing and space-saving storage
- Secure and non-slip positioning with rubber feet
- Very easy to use
  - 1 FGE 5K-3S05: 2 Buttons
  - 2 FGE 10K-3S05: 1 Button
- Comfortable taring with just one keystroke. For example, you can tare a bowl before starting a formulation. In addition, you can tare each time you weigh in a formulation ingredient, so that you can weigh in the next formulation ingredient with the weight indicated in the formula without having to do any calculations
- Integrated AUTO-OFF function to preserve the batteries
- Large high-contrasted display that is easy to read
- 3 Delivered in single design packaging

### Technical data

- 1 FGE 5K-3S05
  - Large backlit LCD display, digit height 18 mm
  - Overall dimensions W×D×H 152×230×15 mm
  - Dimensions weighing surface, acryl, W×D 152×230 mm
  - Ready for use: Batteries included, 2×CR2032
- 2 FGE 10K-3S05
  - Large, luminescent LED segments display, digit height 22 mm
  - Overall dimensions W×D×H 272×250×22 mm
  - Dimensions weighing surface, glass, W×D 272×205 mm
  - Ready for use: Batteries included, 3×1.5 V AAA

The models are delivered in a set of 5 units. That means the price refers to a delivery of 5 units

STANDARD

OPTION

Model	Weighing capacity [Max] kg	Readability [d] g	Options
			Calibr. Certificate
KERN			DAkKS accr. KERN
FGE 5K-3S05	5	1	963-127S05
FGE 10K-3S05	15	1	963-128S05



FOB-S



FOB-NS

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## Compact stainless steel balance for weighing, checking and portioning in the smallest of spaces

### Features

- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, food industry-laboratory etc.)
- Secure and non-slip positioning with rubber feet
- KERN FOB-NS: Protection against dust and water splashes IP65 (only when using battery)
- Your support in a HACCP-compliant quality system
- Particularly flat design
- Protective working cover included with delivery

### Main scope of applications

- Food industry
- Gastronomy
- Packaging industry
- Hygiene sectors

STANDARD



FOB-NS

OPTION



Model KERN	FOB 500-1S	FOB 5K1S	FOB 0.5K-4NS	FOB 5K-3NS
<b>Weighing capacity [Max] g</b>	500	5000	500	5000
<b>Readability [d] g</b>	0,1	1	0,1	1
<b>Display without backlight, digit height</b>	LCD, 20 mm		LCD, 20 mm	
<b>Dimensions of weighing surface WxD</b>	125x155 mm		120x150 mm	
<b>Overall dimensions WxDxH</b>	155x175x40 mm		150x170x40 mm	
<b>Batteries included with delivery</b>	9 V block		9 V block	
<b>Operating time up to</b>	20 h		20 h	
<b>Net weight</b>	0,70 kg		0,80 kg	
<b>Permissible ambient temperature</b>	10 °C - 40 °C		10 °C - 35 °C 10 °C - 40 °C	
<b>Option Calibr. Certificate DAKKS accr.</b>	963-127,		963-127,	

NEW



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## Robust bench scale with IP68/IP69K protection and checkweighing display, with optional verification

### Features

- Dust and splash water protection type IP68/IP69K. Therefore very robust and durable. Ideal for rough environmental conditions
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Rechargeable battery pack and power supply included with delivery for continuous operation of the scale, even during charging
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading

### Technical data

- Integrated piece-counting function with storable piece weight
- Sleep function: The scale automatically switches to energy-saving mode after an adjustable period of inactivity
- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 190x230 mm
- Overall dimensions WxDxH 288x233x102 mm
- Net weight approx. 2,2 kg
- Internal rechargeable battery pack, operating time up to 500 h without backlight, charging time approx. 4 h
- Permissible ambient temperature -10 °C/40 °C

### Main scope of applications

- Food industry
- Chemical industry
- Pharmaceutical industry

STANDARD      OPTION      FACTORY

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Options	
						Verification	Calibr. Certificate
KERN						M III KERN	DAkKS accr. KERN
FPB 3K-4	3	0,2	-	-	2	-	963-127
FPB 6K-3	6	0,5	-	-	5	-	963-128
FPB 15K-3	15	1	-	-	10	-	963-128
FPB 30K-3	30	2	-	-	20	-	963-128

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

FPB 3K-3M	3	1	1	20	10	965-227	963-127
FPB 6K-3M	6	2	2	40	20	965-228	963-128
FPB 15K-3M	15	5	5	100	50	965-228	963-128
FPB 30K-2M	30	10	10	200	100	965-228	963-128



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## Ideal for food industry, thanks to its IP65 protection and special checkweighing display, verification optional

### Features

- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- **1** Protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- Very fast display: steady weight values within 2 s
- **2** Second display on the back of the balance
- Compact size
- **3** Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Recessed grips on the underside of the scale for easy transportation
- Protective working cover included with delivery

### Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 263×203 mm
- Overall dimensions W×D×H 286×316×126,5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

STANDARD	OPTION	FACTORY

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Options	
					Verification 	Calibr. Certificate DAkkS accr. KERN
<b>KERN</b>						
<b>WTB 1K-4N</b>	1,5	0,2	-	-	-	963-127
<b>WTB 3K-4N</b>	3	0,5	-	-	-	963-127
<b>WTB 6K-3N</b>	6	1	-	-	-	963-128
<b>WTB 10K-3N</b>	15	2	-	-	-	963-128
<b>WTB 30K-3N</b>	30	5	-	-	-	963-128

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

<b>WTB 1K-4NM</b>	1,5	0,5	0,5	10	965-227	963-127
<b>WTB 3K-3NM</b>	3	1	1	20	965-227	963-127
<b>WTB 6K-3NM</b>	6	2	2	40	965-228	963-128
<b>WTB 10K-3NM</b>	15	5	5	100	965-228	963-128
<b>WTB 30K-2NM</b>	30	10	10	200	965-228	963-128

**1** ONLY WHILE STOCKS LAST



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## All-round bench scale, protected by stainless steel and IP65 rating, verification optional

### Features

- **1** Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- Your support in a HACCP-compliant quality system
- **2** Ideal for the robust industrial applications
- **3** Protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)

- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- Recessed grips on the underside of the scale for easy transportation

### Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 233x193 mm
- Overall dimensions WxDxH 243x300x127 mm
- Rechargeable battery pack integrated, as standard, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

STANDARD      OPTION      FACTORY

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Options	
					Verification 	Calibr. Certificate DAkkS accr. KERN
<b>KERN</b>						
<b>FFN 1K-4N</b>	1,5	0,2	-	-	-	963-127
<b>FFN 3K0.5IPN</b>	3	0,5	-	-	-	963-127
<b>FFN 6K1IPN</b>	6	1	-	-	-	963-128
<b>FFN 15K2IPN</b>	15	2	-	-	-	963-128
<b>FFN 25K5IPN</b>	25	5	-	-	-	963-128

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

<b>FFN 1K-4NM</b>	1,5	0,5	0,5	10	965-227	963-127
<b>FFN 3K1IPM</b>	3	1	1	20	965-227	963-127
<b>FFN 6K2IPM</b>	6	2	2	40	965-228	963-128
<b>FFN 15K5IPM</b>	15	5	5	100	965-228	963-128
<b>FFN 25K10IPM</b>	25	10	10	200	965-228	963-128



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## Stainless steel platform scales with IP65/67 protection, also with XL platform or optional verification

### Features

- Ideal for the robust industrial applications
- Display device: stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- Platform: made entirely of stainless steel, silicone-coated Stainless Steel load cell, protection against dust and water splashes IP67
- **1** KERN SFB-H: Column, standard, for models with weighing plate size
  - A** Height of stand approx. 200 mm
  - B** Height of stand approx. 400 mm

### Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Weighing platform dimensions WxDxH, stainless steel
  - A** 300x240x107 mm
  - B** 400x300x111 mm
  - C** 500x400x120 mm
  - D** 650x500x139 mm

- Rechargeable battery pack integrated, as standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

\*Please note: only one optional interface can be fitted for each device

### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Net weight approx. kg	Options	
							Verification	Calibr. Certificate
KERN							M III KERN	DAkkS accr. KERN
SFB 50K-3XL	50	5	-	-	C	13	-	963-128
SFB 100K-2XL	100	10	-	-	D	24	-	963-129
					<b>1</b> with elevated display			
SFB 10K1HIP	10	1	-	-	A	8	-	963-128
SFB 20K2HIP	20	2	-	-	A	8	-	963-128
SFB 50K5HIP	50	5	-	-	A	8	-	963-128
SFB 50K5LHIP	50	5	-	-	B	10	-	963-128
SFB 100K10HIP	100	10	-	-	B	10	-	963-129
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.								
SFB 60K-2XLM**	60	20	20	400	C	14	965-229	963-129
SFB 100K-2LM**	150	50	50	1000	C	14	965-229	963-129
SFB 100K-2XLM**	150	50	50	1000	D	24	965-229	963-129
					<b>1</b> with elevated display			
SFB 100K-2HM**	150	50	50	1000	B	10	965-229	963-129
SFB 15K5HIPM**	15	5	5	100	A	8	965-228	963-128
SFB 30K10HIPM**	30	10	10	200	A	8	965-228	963-128
SFB 60K20LHIPM**	60	20	20	400	B	10	965-229	963-129

**1** \*\*ONLY WHILE STOCKS LAST



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## Interlinked for industry of the future: Stainless steel platform scale with up to four data interfaces and optional alibi memory, with optional verification

### Features

- Ideal for the robust industrial applications
- Platform: made entirely of stainless steel, hermetically welded stainless steel load cell with protection against dust and water splashes IP68, IP69K
- Display device: stainless steel, dust and splash water protection IP68, integrated power supply
- Ideal for the increased hygienic requirements in the food industries
- Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
  - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers (for details see page 19)
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further, see internet



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**Technical data**

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, stainless steel
  - A** 300×240×107 mm
  - B** 400×300×111 mm
  - C** 400×300×123 mm
  - D** 500×400×120 mm
  - E** 500×400×126 mm
  - F** 650×500×139 mm
- Dimensions of display device W×D×H 232×150×77,3 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

\*Only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth) can be used at the same time

STANDARD



OPTION

FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Options	
							Verification	Calibr. Certificate
KERN							M KERN	DAKkS accr. KERN
SXC 6K-4	6	0,5	-	-	6	A	-	963-128
SXC 10K-3	15	1	-	-	7	A	-	963-128
SXC 10K-3L	15	1	-	-	12	B	-	963-128
SXC 30K-3	30	2	-	-	12	B	-	963-128
SXC 30K-3L	30	2	-	-	22	D	-	963-128
SXC 60K-3	60	5	-	-	12	C	-	963-129
SXC 60K-3L	60	5	-	-	22	E	-	963-129
SXC 100K-2	150	10	-	-	12	E	-	963-129
SXC 100K-2L	150	10	-	-	20	F	-	963-129
SXC 300K-2	300	20	-	-	20	F	-	963-129

Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

SXC 6K-3M	3   6	1   2	1   2	20   40	7	A	965-228	963-128
SXC 10K-3M	6   15	2   5	2   5	40   100	7	A	965-228	963-128
SXC 10K-3LM	6   15	2   5	2   5	40   100	8	B	965-228	963-128
SXC 30K-3M	15   30	5   10	5   10	100   200	11	B	965-228	963-128
SXC 30K-3LM	15   30	5   10	5   10	100   200	12	D	965-228	963-128
SXC 60K-2M	30   60	10   20	10   20	200   400	11	C	965-229	963-129
SXC 60K-2LM	30   60	10   20	10   20	200   400	12	E	965-229	963-129
SXC 100K-2M	60   150	20   50	20   50	400   1000	12	E	965-229	963-129
SXC 100K-2LM	60   150	20   50	20   50	400   1000	20	F	965-229	963-129
SXC 300K-2M	150   300	50   100	50   100	1000   2000	20	F	965-229	963-129

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.