



KERN & Sohn GmbH

Ziegelei 1

D-72336 Balingen

E-Mail: info@kern-sohn.com

Tel: +49-[0]7433- 9933-0

Fax: +49-[0]7433-9933-149

Internet: www.kern-sohn.com

Installation instructions platform (≤ 300 kg)(EN)

KERN KFP_V20(SK)

Version 1.8

07/2012

GB



KFP_V20 \leq 300-BA-e-1218



KERN KFP

Version 1.8 07/2012

Operating Instruction Platforms

Table of contents

1	Safety precautions	3
2	Setting up the weighing platform	4
2.1	Selecting the site of installation.....	4
2.2	Package volume	4
2.3	Protect screw (Exemplification).....	5
2.4	Packaging / return transport	6
2.5	Ambient conditions	6
2.6	Levelling	6
2.7	Connecting to the weighing terminal	7
3	Operating limits	7
4	Cleaning	8
5	Technical data	8
5.1	Dimensions in mm.....	8
5.2	Technical data of the weighing cell	8
5.3	Preload, Deadload and Overload settings	9

1 General

- These installation instructions cover all information required for the installation and start-up of the following platforms:

KERN KFP 6V20M, KFP 6V20LM

KERN KFP 15V20M

KERN KFP 30V20M

KERN KFP 60V20M, KFP 60V20LM

KERN KFP150V20M, KFP 150V20LM

KERN KFP300V20M

2 Safety precautions

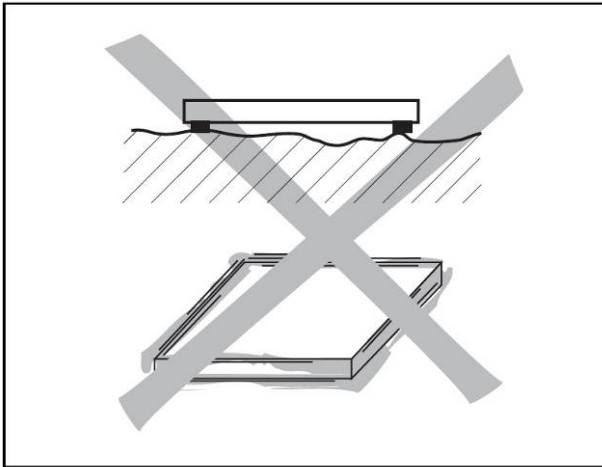
Product safety plays an important role at KERN & Sohn.

Non-observance of the following instructions can lead to damage to the weighing platform and/or injuries.

- ⇒ Before using the weighing platform read these instructions. Store these instructions for future use.
- ⇒ Take care when transporting or lifting heavy devices.
- ⇒ Only qualified personnel may install and maintain the weighing platform.
- ⇒ Disconnect the weighing terminal from the power supply before carrying out cleaning, installation and maintenance.
- ⇒ The weighing platform must have stabilized to room temperature before the supply voltage is switched on.
- ⇒ Do not use the weighing platform in hazardous environments.

3 Setting up the weighing platform

3.1 Selecting the site of installation

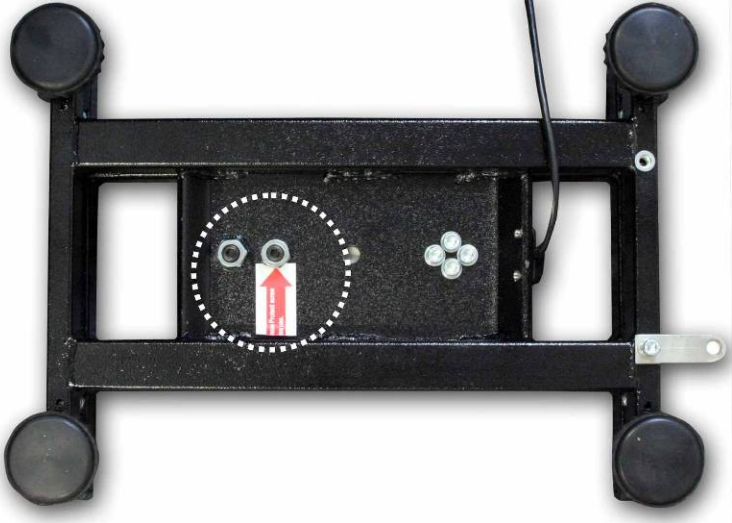


- The surface must be able to bear the weighing platform under maximum load at the points of support. At the same time it should be so stable that no vibrations arise during weighing. This is also to be observed when installing the weighing platform in conveyor and similar systems.
- If possible, vibrations from neighboring machines should not occur at the site of installation.

3.2 Package volume

- Weighing plate (stainless steel)
- Protect screw
- Operation Manual

3.3 Protect screw (Exemplification)



KERN KFP KFP 6V20M, KFP 6V20LM, KFP 15V20M:

1.

2.



Sealed Screws  may not be loosened (see figure).

3.

4.



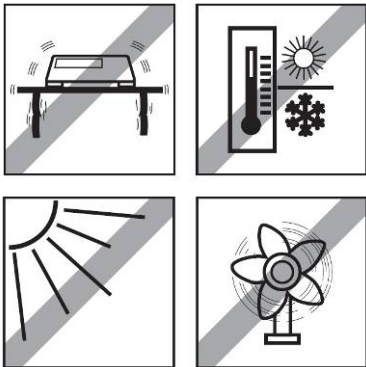
3.4 Packaging / return transport



- ⇒ Keep all parts of the original packaging for a possibly required return.
- ⇒ Only use original packaging for returning.
- ⇒ Reattach supplied transport securing devices.
- ⇒ Secure all parts against shifting and damage.

3.5 Ambient conditions

Do not use the weighing platform in wet or corrosive environments. Never immerse electronic products into liquids.

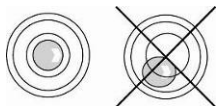


Observe the following ambient conditions:

- ⇒ No direct sunshine
- ⇒ No strong draught
- ⇒ No excessive temperature fluctuations
- ⇒ Temperature range $-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$.

3.6 Levelling

Only a weighing platform which is aligned exactly horizontally supplies exact weighing results. The weighing platform has to be levelled during the initial installation and whenever its location is changed.



- ⇒ As the spirit level is underneath the weighing platform it has to be removed.
- ⇒ Level balance with foot screws until the air bubble of the water balance is in the prescribed circle.

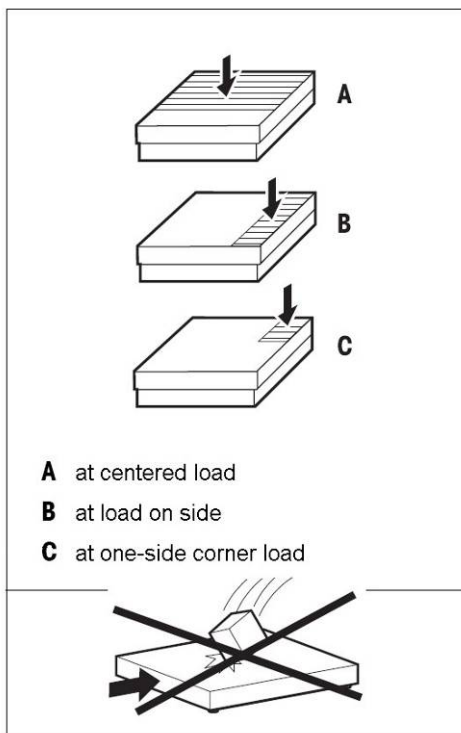
3.7 Connecting to the weighing terminal

Deadweight cell output	KERN KFP weighing platform connection
EXC+(5V)	See marking of the deadweight cell
EXC-(0)	
SIG-	
SIG+	

4 Operating limits

The weighing platform is designed so robustly that an occasional exceeding of the maximum weighing load does not lead to damage.

The static bearing capacity, i.e. the maximum permissible load, depends on the type of load carrying (position A – C). The maximum static bearing capacity may not be exceeded.



⇒ Avoid falling loads, shock loads as well as impacts from the side.

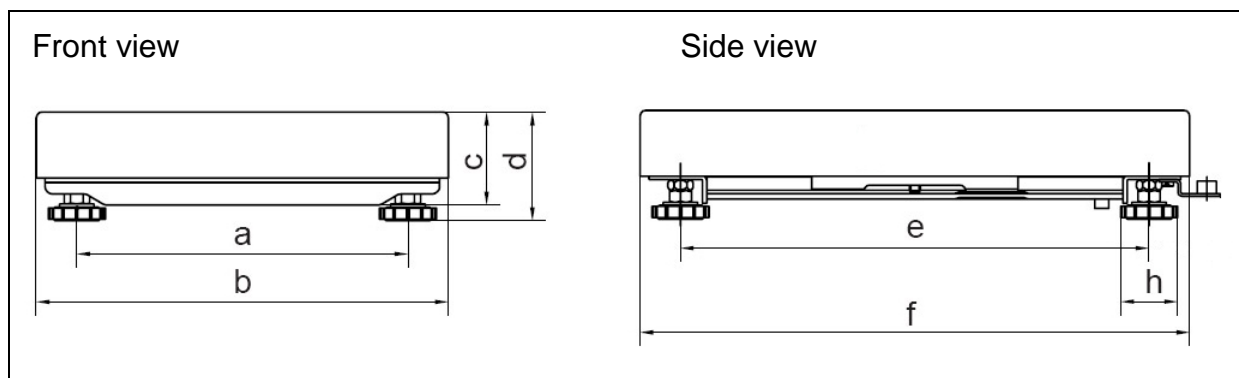
Model	A	B	C
KFP 6V20M, KFP 6V20LM	9 kg	6 kg	3 kg
KFP 15V20M	22 kg	15 kg	7 kg
KFP 30V20M	45 kg	30 kg	15 kg
KFP 60V20M, KFP 60V20LM	90 kg	60 kg	30 kg
KFP150V20M, KFP 150V20LM	225 kg	150 kg	75 kg
KFP300V20M	450 kg	300 kg	150 kg

5 Cleaning

- ⇒ Clean the weighing platform with a soft cloth soaked with a mild cleaning agent.
- ⇒ Take off the load panel and remove any dirt and foreign substances which may have collected underneath it. Do not use any hard objects to do so. Do not open the weighing platform.

6 Technical data

6.1 Dimensions in mm



Model	a	b	c	d	e	f	h
KFP 6V20M	196	230	68	100	195	230	56
KFP 6V20LM KFP 15V20M	206	240	68	100	265	300	56
KFP 30V20M KFP 60V20M	234	300	96	125	341	400	56
KFP 60V20LM KFP150V20M	335	400	105	137	441	500	56
KFP 150V20LM KFP300V20M	425	500	110	142	586	650	56

6.2 Technical data of the weighing cell

Sensitivity	2mV/V
Input resistance	409 Ω
Output resistance	350 Ω
Supply voltage	10VDC
OIML approval	C3

6.3 Preload, Deadload and Overload settings

Kern model	max. Preload* (kg) * = additional initial load	Deadload** (kg) **= initial load placed earlier	Center Overload Protection circa (kg)	Corner Overload Protection circa (kg)	Loadcell Capacity (kg)
KFP 6V20 M	2.28	1.72	8.5	5	10
KFP 6V20 LM	1.86	2.14	8.5	5	10
KFP 15V20 M	2.86	2.14	23	12	30
KFP 30V20 M	10.52	4.48	46	30	50
KFP 60V20 M	35.52	4.48	85	50	100
KFP 60V20 LM	30.98	9.02	85	50	100
KFP 150V20 M	90.98	9.02	200	130	200
KFP 150V20 LM	136.14	13.86	270	130	300
KFP 300V20 M	186.14	13.86	550	230	500

Platform type	Platform dimension (mm)	Loadcell	TC	Class	Max	E _{max}	E _{min}	Y	V _{min}	n	Dead-load	T _{min}	T _{max}	Z	Cable-	P _{Lc}
		I	Nr.		Preload	-1	-4	-2	-3	(kg)	-5	-6	oder	length		
		Typ			(kg)	(kg)	(g)	(g)					DR	(m)		
KFP 6V20M	230x230x100	L6D	D09-03.20	C3	2.28	10	0	5000	2	3000	1.72	-10	40	n _{LC}	2	0,7
KFP 6V20LM	300x240x100	L6D	D09-03.20	C3	1.86	10	0	5000	2	3000	2.14	-10	40	n _{LC}	2	0,7
KFP 15V20M	300x240x100	L6D	D09-03.20	C3	2.86	30	0	5000	10	3000	2.14	-10	40	n _{LC}	2	0,7
KFP 30V20M	400x300x128	L6E	D09-03.21	C3	10.52	50	0	6000	10	3000	4.48	-10	40	n _{LC}	2	0,7
KFP 60V20M	400x300x128	L6E	D09-03.21	C3	35.52	100	0	6000	20	3000	4.48	-10	40	n _{LC}	2	0,7
KFP 60V20LM	500x400x137	L6G	D09-03.22	C3	30.98	100	0	6000	20	3000	9.02	-10	40	n _{LC}	2	0,7
KFP 150V20M	500x400x137	L6G	D09-03.22	C3	90.98	200	0	6000	50	3000	9.02	-10	40	n _{LC}	2	0,7
KFP 150V20LM	650x500x142	L6G	D09-03.22	C3	136.14	300	0	6000	50	3000	13.86	-10	40	n _{LC}	2	0,7
KFP 300V20M	650x500x142	L6G	D09-03.22	C3	186.14	500	0	6000	100	3000	13.86	-10	40	n _{LC}	2	0,7