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Installation instructions platform

KERN KFP_V30

Version 1.1

11/2015

GB



KFP_V30-BA-e-1511



KERN KFP V30

Version 1.1 11/2015

Operating Instruction Platforms

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1 General

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

KFP 15V30M

KFP 30V30SM, KFP 30V30M

KFP 60V30M, KFP 60V30LM, KFP 60V30XLM

KFP150V30M, KFP 150V30SM, KFP 150V30LM

KFP300V30M

2 Safety precautions

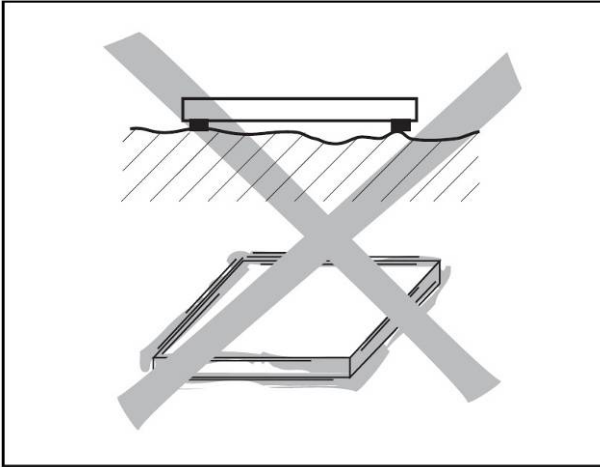
Product safety plays an important role at KERN & Sohn.

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.

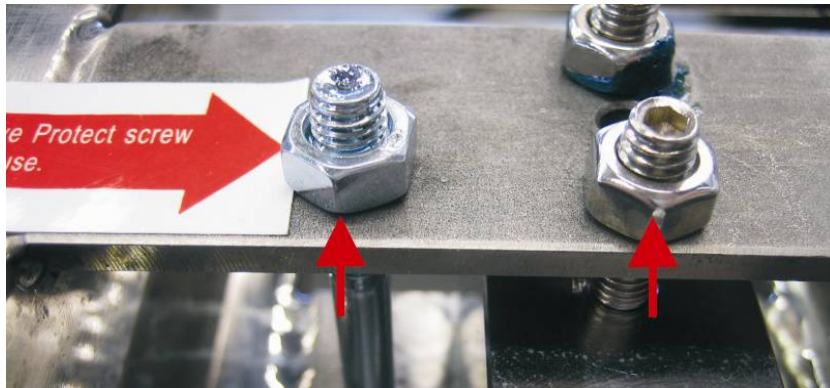
3.2 Package volume

- Platform
- Protect screw
- Operation Manual

3.3 Remove the transportation lock

Remove the marked screws.

1. Models platform size 300 x 240 mm



2. Models platform size 400 x 300 mm



Attention: The sealed screws must not be unscrewed!

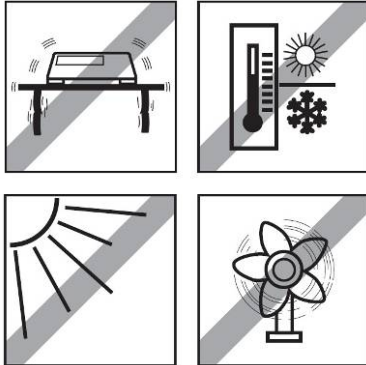
3.4 Packaging / return transport



- ⇒ 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.

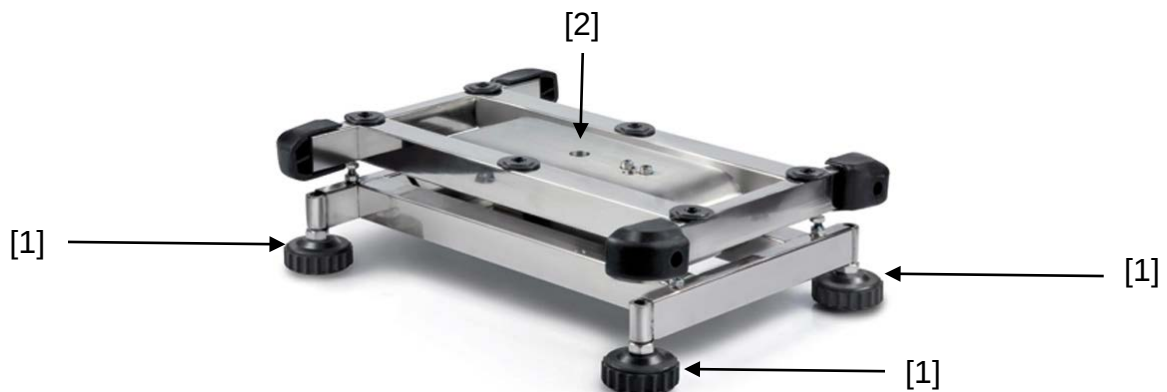


Observe the following ambient conditions:

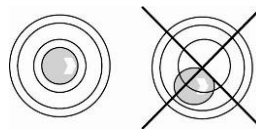
- ⇒ No direct sunshine
- ⇒ No strong draught
- ⇒ No excessive temperature fluctuations
- ⇒ Temperature range -10 °C to $+40\text{ °C}$.

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.



Level platform with foot screws [1] until the air bubble of the water balance is in the prescribed circle [2].



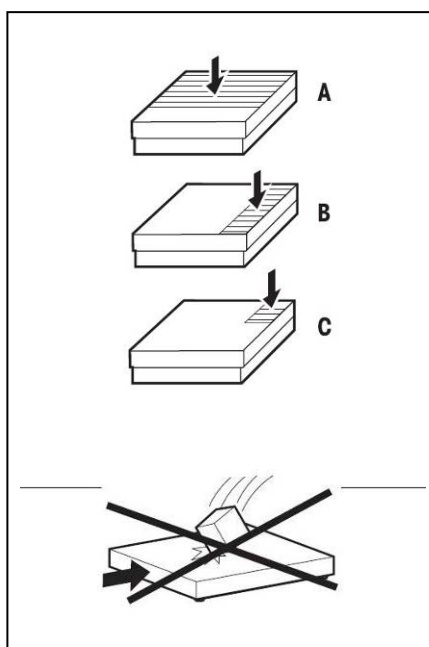
3.7 Connecting to the weighing terminal

Deadweight cell output	KERN KFP_V30 weighing platform connection
EXC+	See marking of the deadweight cell
EXC-	
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.

A at centered load

B at load on side

C at one side corner load

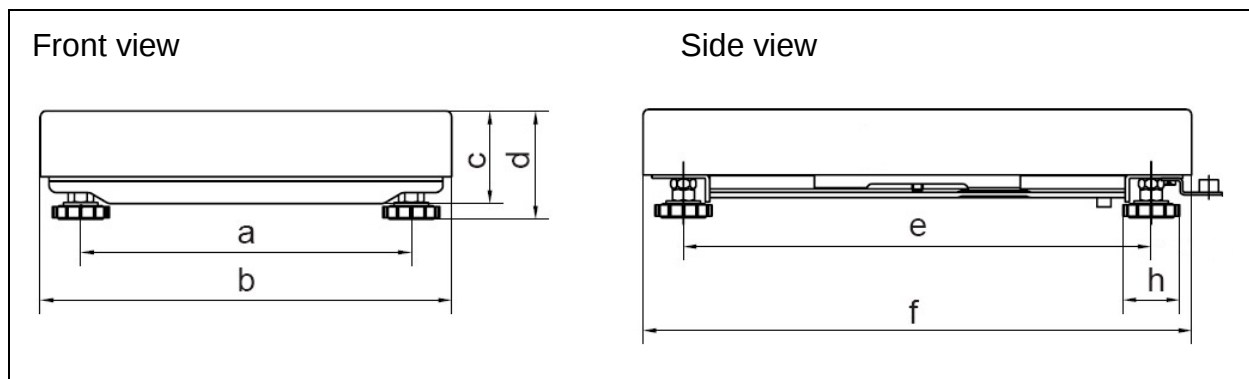
Model	A	B	C
KFP 15V30M	22 kg	15 kg	7 kg
KFP 30V30SM , KFP 30V30M	45 kg	30 kg	15 kg
KFP 60V30M, KFP 60V30LM, KFP 60V30XLM	90 kg	60 kg	30 kg
KFP150V30M, KFP 150V30SM, KFP 150V30LM	225 kg	150 kg	75 kg
KFP300V30M	450 kg	300 kg	150 kg

5 Cleaning

- ⇒ Clean the stainless-steel parts with a soft cloth soaked with a cleaning agent suitable for stainless steel.
- ⇒ For stainless steel parts do not use any cleaning agents which contain sodium hydroxide solution, acetic, hydrochloric, sulphuric or citric acid.
- ⇒ Do not use metal brushes or cleaning sponges of steel wool, as this causes superficial corrosion.
- ⇒ 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.
- ⇒ Remove regularly corrosive substances.
- ⇒ Keep IP protection.

6 Technical data

6.1 Dimensions in mm



Model	a	b	c	d	e	f	h
KFP 15V30M	176	240	80	108	242	300	56
KFP 30V30SM	176	240	80	108	242	300	56
KFP 30V30M	236	300	90	118	342	400	56
KFP 60V30M	236	300	90	118	342	400	56
KFP 60V30LM	334	400	98	126	442	500	56
KFP 60V30XLM	424	500	108	136	587	650	56
KFP 150V30M	236	300	90	118	342	400	56
KFP 150V30SM	236	300	90	118	342	400	56
KFP 150V30LM	334	400	98	126	442	500	56
KFP 300V30M	424	500	108	136	587	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 Deadload and Overload settings

Kern model	Deadload** (kg) **= initial load placed earlier	Center Overload Protection circa (kg)	Corner Overload Protection circa (kg)	Loadcell Capacity (kg)
KFP 15V30M	2.14	23	12	30
KFP 30V30SM	4.48	46	30	50
KFP 30V30M	4.48	46	30	50
KFP 60V30M	4.48	46	30	100
KFP 60V30LM	9.02	85	50	100
KFP 60V30XLM	13.86	85	50	100
KFP 150V30M	9.02	85	50	200
KFP 150V30SM	4.48	200	130	200
KFP 150V30LM	13.86	200	130	200
KFP 300V30M	13.86	550	230	500

Platform type	Platform dimension (mm)	Loadcell	TC	Class	E _{max}	E _{min}	Y	V _{min}	n	Dead-load	T _{min}	T _{max}	Z	Cable-	P _{LC}
		Typ	Nr.		-1	-4		-2	-3	(kg)	-5	-6	oder	length	
					(kg)	(g)		(g)					DR	(m)	
KFP 15V30M	300x240x100	B6N	D09-10.10	C3	30	0	9000	3	3000	2.14	-10	40	nLC	2	0,7
KFP 30V30SM	300x240x110	B6N	D09-10.10	C3	50	0	9000	5	3000	4.48	-10	40	nLC	2	0,7
KFP 30V30M	400x300x128	B6N	D09-10.10	C3	50	0	9000	5	3000	4.48	-10	40	nLC	2	0,7
KFP 60V30M	400x300x128	B6N	D09-10.10	C3	100	0	9000	10	3000	4.48	-10	40	nLC	2	0,7
KFP 60V30LM	500x400x137	B6N	D09-10.10	C3	100	0	9000	10	3000	9.02	-10	40	nLC	2	0,7
KFP 60V30XLM	400x300x128	BM6G	D09-10.06	C3	100	0	10000	10	3000	4.48	-10	40	nLC	2	0,7
KFP 150V30M	500x400x137	B6N	D09-10.10	C3	200	0	9000	20	3000	9.02	-10	40	nLC	2	0,7
KFP 150V30SM	400x300x128	B6N	D09-10.10	C3	200	0	9000	20	3000	4.48	-10	40	nLC	2	0,7
KFP 150V30LM	650x500x137	B6N	D09-10.10	C3	200	0	9000	20	3000	13.86	-10	40	nLC	2	0,7
KFP 300V30M	650x500x142	BM6G	D09-10.06	C3	500	0	10000	50	3000	13.86	-10	40	nLC	2	0,7