BEETLE /iSCAN EASY eXpress+

Integration manual

May 2019

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Contents

1 1.1	Remarks	
2 2.1 2.2	Technical data	. 2
3.2 3.3 3.4 3.5 3.6 3.7	Dimensions Rear of 15" and 19" version 15" version 15" version with tabletop display 19" version 19" version with tabletop display 19" version with tabletop display Openings on the underside Device with open door	. 3 . 4 . 5 . 6 . 7 . 7
	Orientation and vertical mounting Ventilating the system	
	Suspending the system	
7	Cabling external devices	12
8	Mechanically adapting additional peripherals	13
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.2.1 9.2.2 9.3 9.4 9.5	Pillar and wall mounting Dimensions (in mm). Optional base plate. Pillar drill template Pillar mounting with 15" BEETLE /iScan EASY eXpress+ Pillar mounting of 19" BEETLE /iScan EASY eXpress+ with optional basket shelf on both sides, status indicator, coupon box and base plate Pillar mounting of 19" BEETLE /iScan EASY eXpress+ and optional basket shelf on both sides, status indicator, coupon box and base plate Pillar mounting of 19" BEETLE /iScan EASY eXpress+ and optional scale platform Wall mounting of 15" BEETLE /iScan EASY eXpress+ Wall mounting of 19" BEETLE /iScan EASY eXpress+ Wall mounting of 19" BEETLE /iScan EASY eXpress+	15 15 16 17 18 19 24 25 27 27
9.8 9.9 9.10 9.11 9.12 9.12.1 9.12.2	Installing the coupon box Installing the signal indicator Installing the coupon printer shelf Installation Sensormatic Controller Assembly instructions: Wall mounting Requirements Hole pattern for wall mounting (dimensions in mm)	32 34 37 38 41 41 42
9.12.3 10	Installing the wall mount	

1 Remarks

You will find further important details in relation to installation in the Installation Guide for the BEETLE /iSCAN Express+ on the Diebold Nixdorf website.



NOTICE

An angled power cable is required both for integration in the tabletop adapter and for wall and pillar mounting.

1.1 Symbols

∕!∖



DANGER

This warning note describes a hazard with a high degree of risk, which, if not avoided, will result in death or grave bodily injury.



This warning note describes a hazard with a medium degree of risk, which, if not avoided, will result in death or grave bodily injury.



This warning note describes a hazard with a low degree of risk, which, if not avoided, will result in death or grave bodily injury.



NOTICE

This note provides application tips and information that help prevent errors and material damage.

2 Technical data

2.1 System

Mains input voltage	100-240 VAC / 60-50Hz
Power consumption	1.4-0.7A
Typical output	approx. 55W
Max. output	approx. 87W
Standby output	approx. 1.5W
Weight for 15" version	28 kg
Weight for 19" version	30 kg

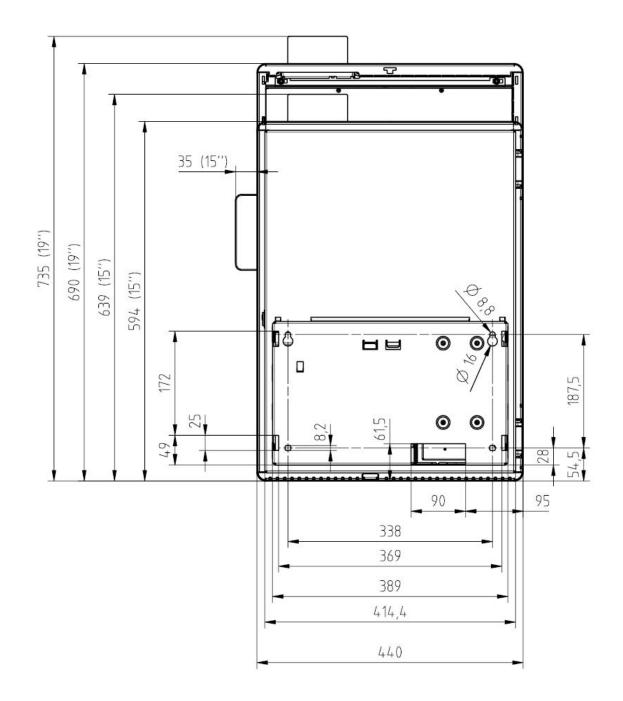
2.2 Environmental conditions

Operation				
Air temperature:	5 °C – 35 °C			
Relative humidity:	5% r.h. (1 g/m 3) – 85% r.h. (25 g/m 3)			
Temperature fluctuation:	0.5 K/min (max. 7.5K/30 min)			
Air pressure:	106 - 78 kPa			
(78kPa corresponds to the air pressure for installation at approx. 2000m above sea level) Installation environments with prolonged exposure to sunlight should be avoided.				
Storage				
Air temperature:	5 °C – 40 °C			
Humidity:	5% r.h. (1g/m 3) – 85% r.h. (25 g/m 3) 0.5 K/min			
Temperature fluctuation:	0.5 K/min (max. 7.5K/30min)			
Transport				
Air temperature:	-25 °C – 60 °C			
Humidity:	15% r.h. (1 g/m 3) – 98% r.h. (32 g/m 3)			
Temperature fluctuation: -	25 °C / 25 °C			

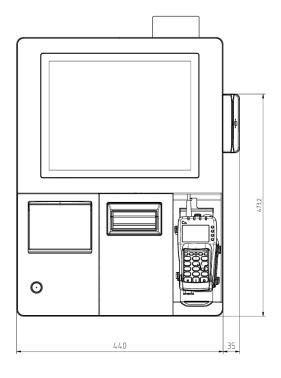
3 Dimensions

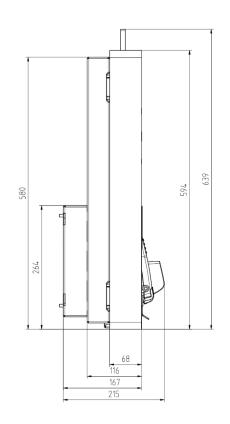
(all values in mm)

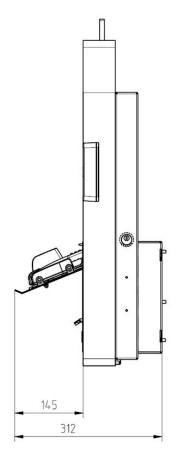
3.1 Rear of 15" and 19" version



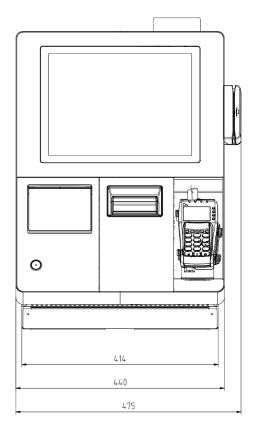
3.2 15" version

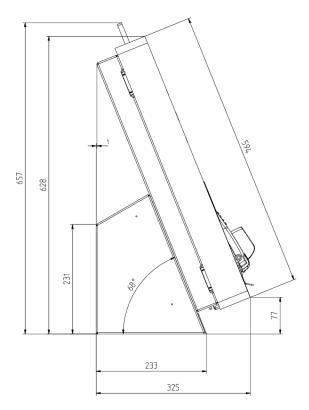




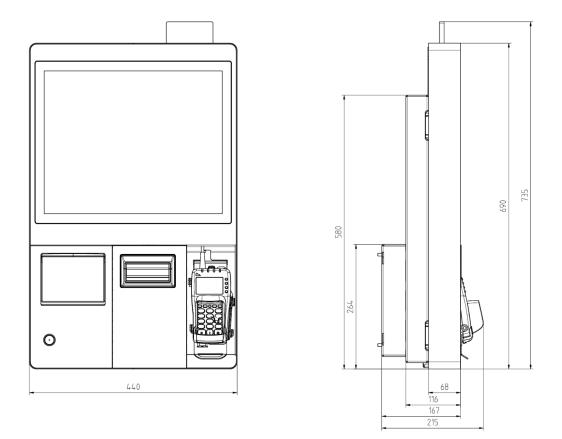


3.3 15" version with tabletop display

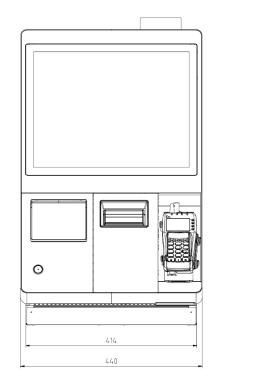


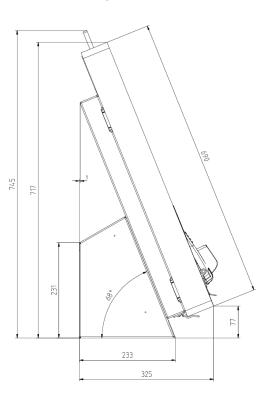


3.4 19" version

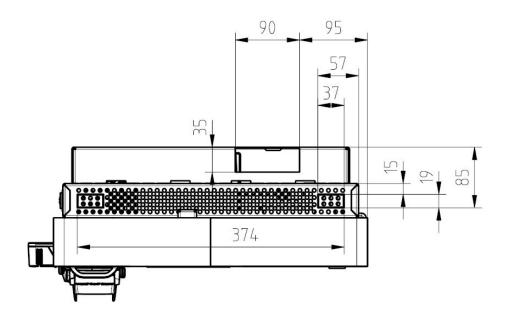


3.5 19" version with tabletop display

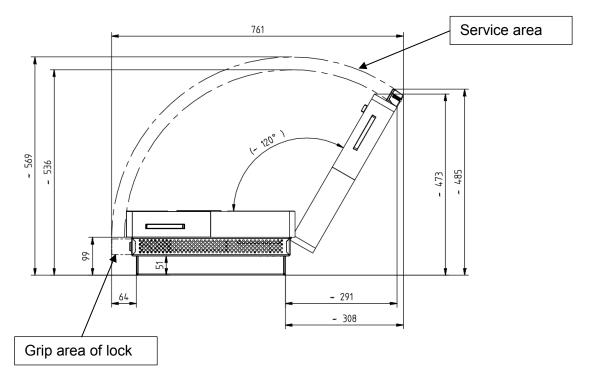




3.6 Openings on the underside

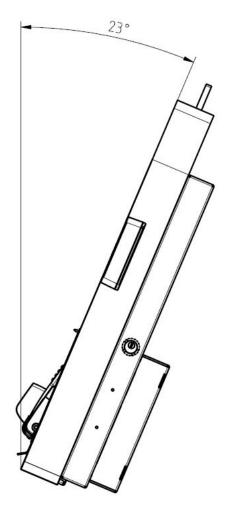


3.7 Device with open door



4 Orientation and vertical mounting

The BEETLE /iSCAN EASY eXpress⁺ may be installed vertically or tilted at an angle of up to 23° from the vertical.



Danger owing to ingress of liquids!



In case of vertical assembly in a restaurant environment, a suitable mechanism must be used to ensure that no beverages can be placed on the device.

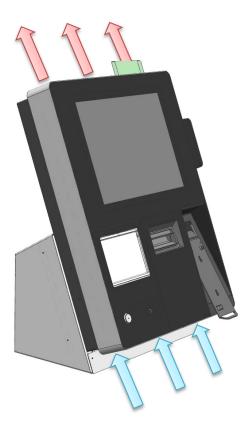
Ingress of liquids can damage the device irreparably.

5 Ventilating the system

Keep the device's ventilation openings uncovered to ensure adequate ventilation. This prevents the temperature increasing excessively.

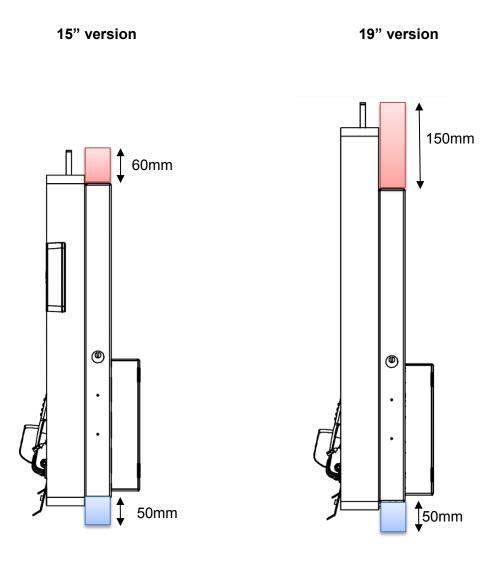
Even if you plan to integrate the device, make sure to maintain the minimum distances stated below and ensure reliable ventilation and air extraction.

The direct ambient temperature of the system must not exceed 35 °C.

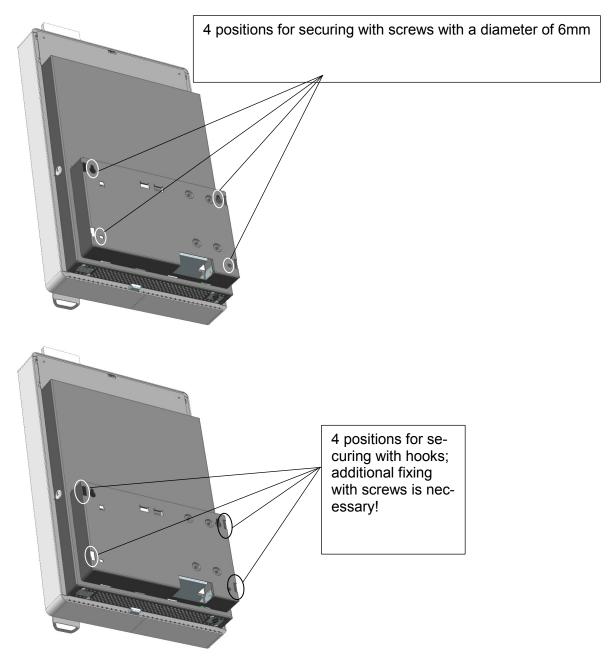


Observe the specified minimum distances to ensure proper ventilation.

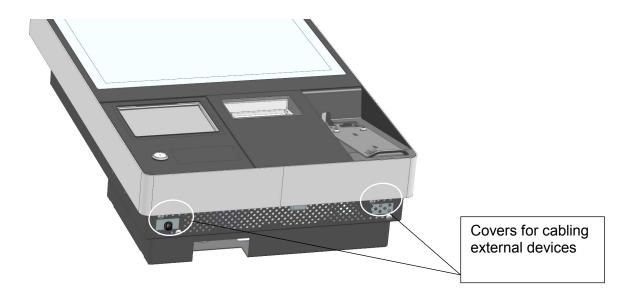
Always keep the ventilation slots free of obstruction to ensure adequate air circulation and avoid overheating.



6 Suspending the system

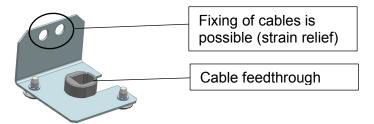


7 Cabling external devices



There are openings on the underside of the device to the right and left, which are sealed by covers.

One of the covers allows cable feed with edge protection. The covers are interchangeable.



8 Mechanically adapting additional peripherals

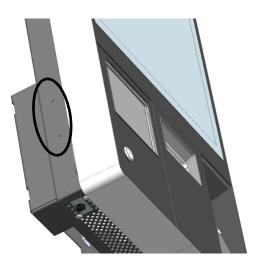
The housing of the BEETLE /iSCAN EASY eXpress⁺ includes two M4 screw threads on either side of the body for attaching add-ons, such as brackets for handheld scanners, advertising media, etc.

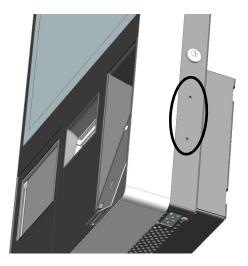


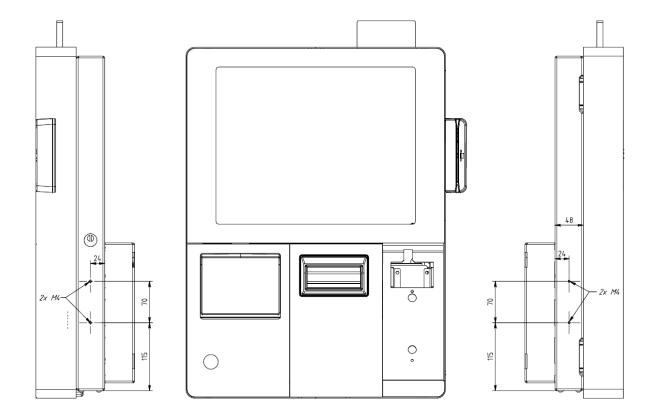
WARNING

Risk of injury! The M4 screw threads must not be used under any circumstances for mounting the device on a wall.

Take care when fitting the add-ons that the opening of the door and access to the locking system are not obstructed.



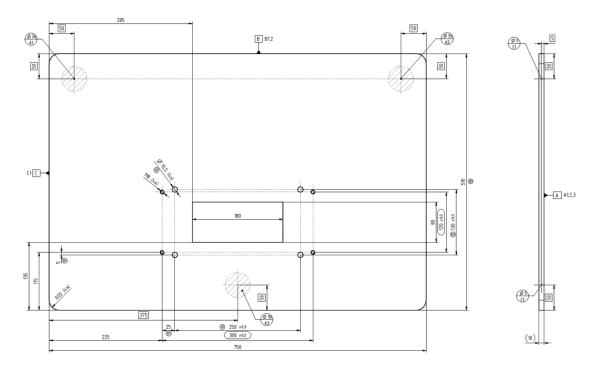


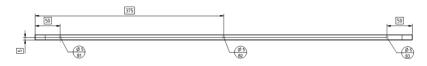


9 Pillar and wall mounting

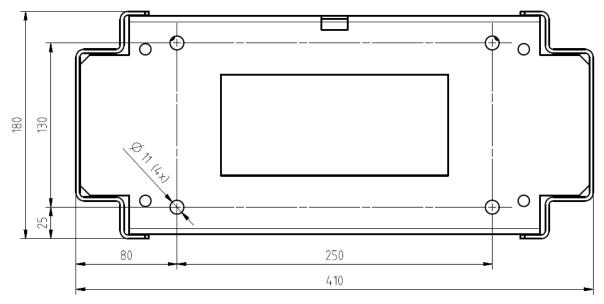
9.1 Dimensions (in mm)

9.1.1 Optional base plate

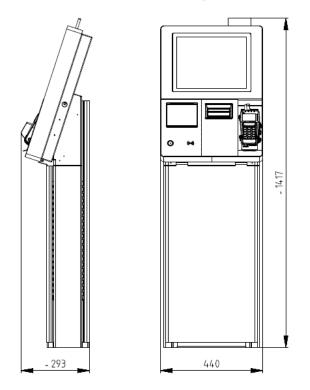




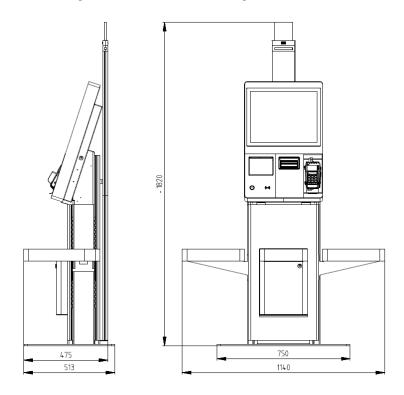




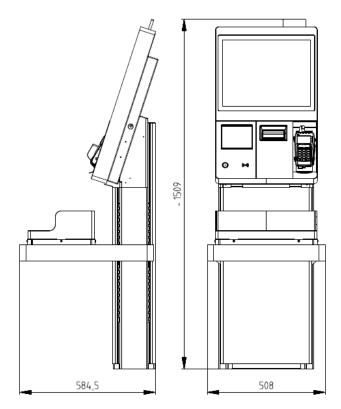
9.1.3 Pillar mounting with 15" BEETLE /iScan EASY eXpress+



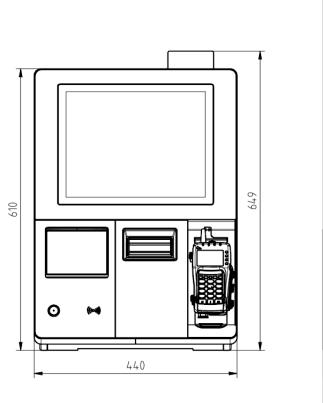
9.1.4 Pillar mounting of 19" BEETLE /iScan EASY eXpress+ with optional basket shelf on both sides, status indicator, coupon box and base plate

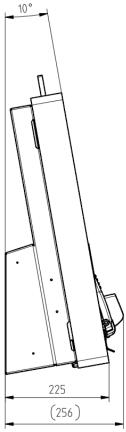


9.1.5 Pillar mounting of 19" BEETLE /iScan EASY eXpress+ and optional scale platform

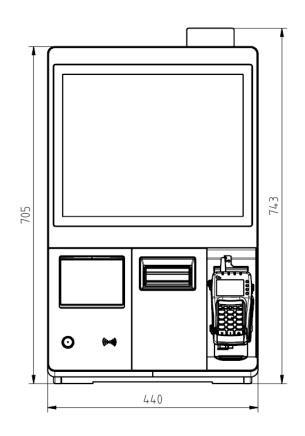


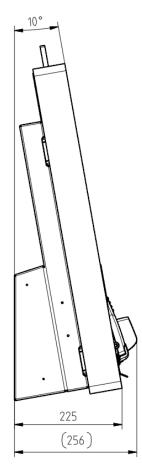
9.1.6 Wall mounting of 15" BEETLE /iScan EASY eXpress+





9.1.7 Wall mounting of 19" BEETLE /iScan EASY eXpress+





9.2 Installation instructions: Self-Checkout on pillar

9.2.1 Self-Checkout with floor cabling

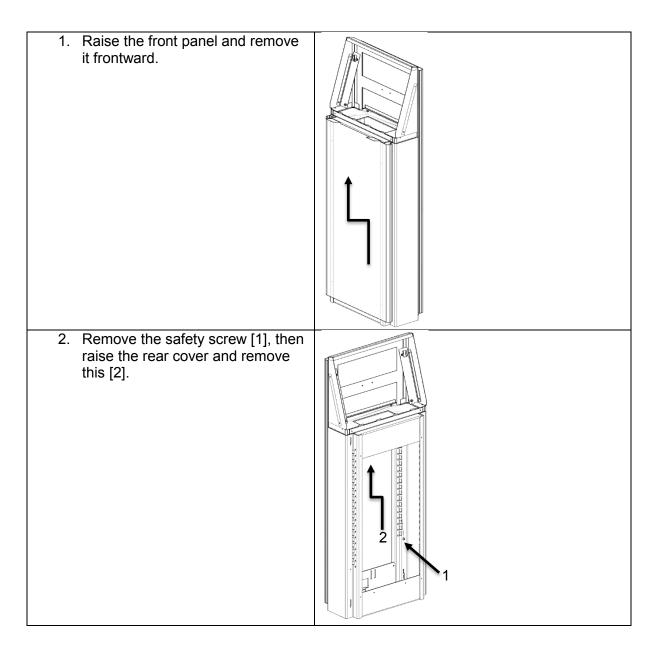
Installation including floor mounting must be carried out by a trained engineer after assessing and evaluating the structural conditions on site.

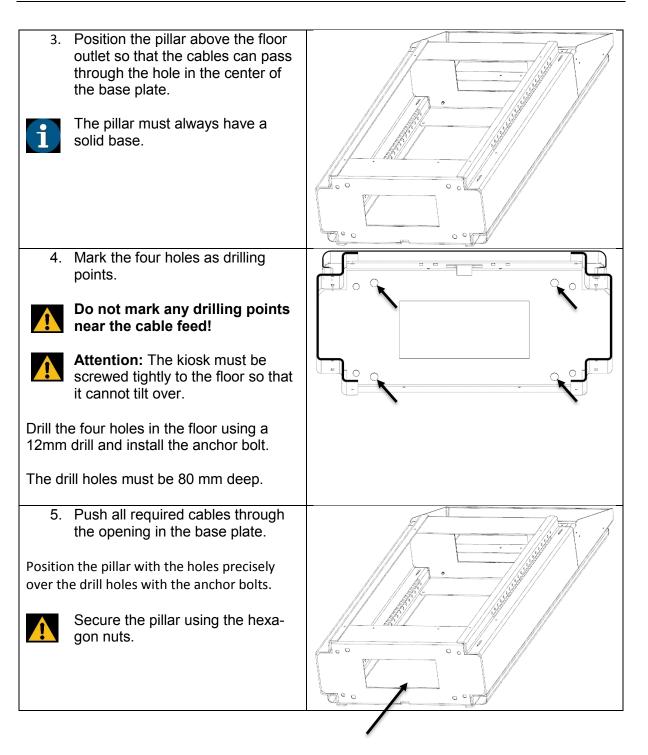
Materials required (depending on the substrate):

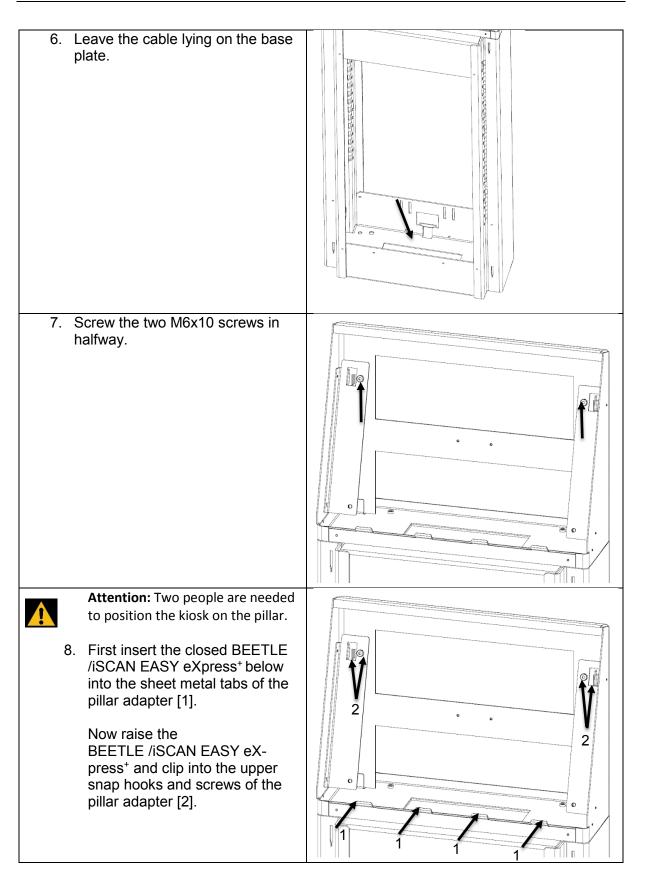
4x M10 anchor bolts

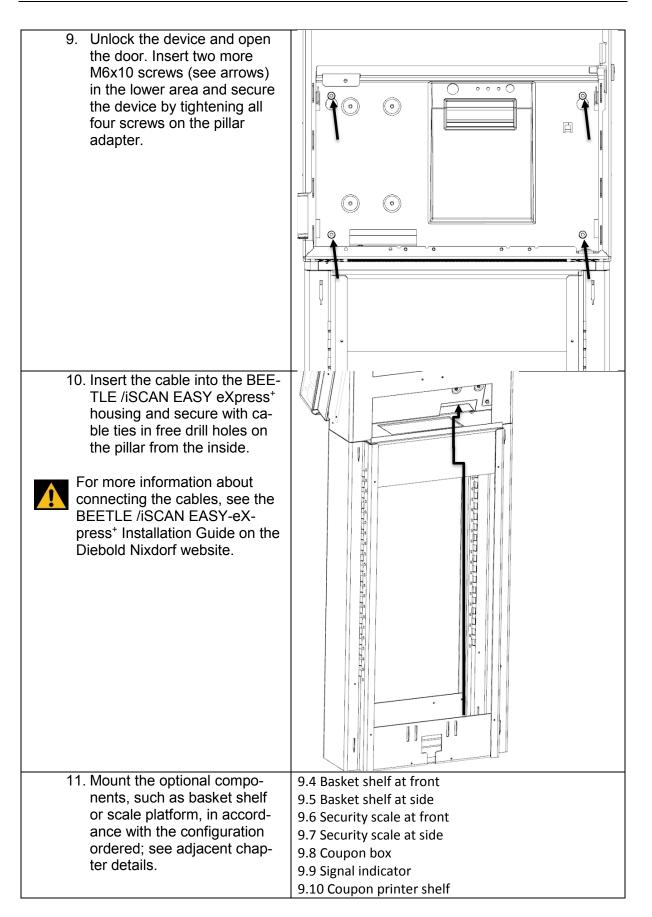
4x DIN 933 M10x60-8.8 hexagon bolts

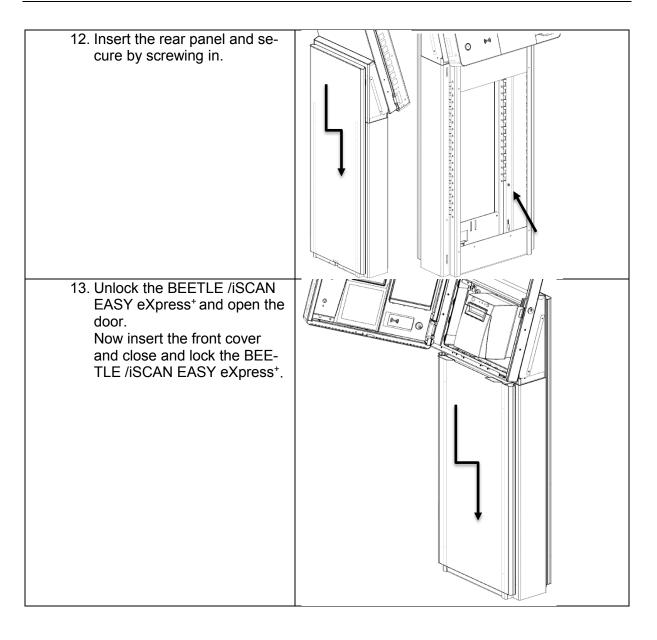
4x 10.5x2.0 washers





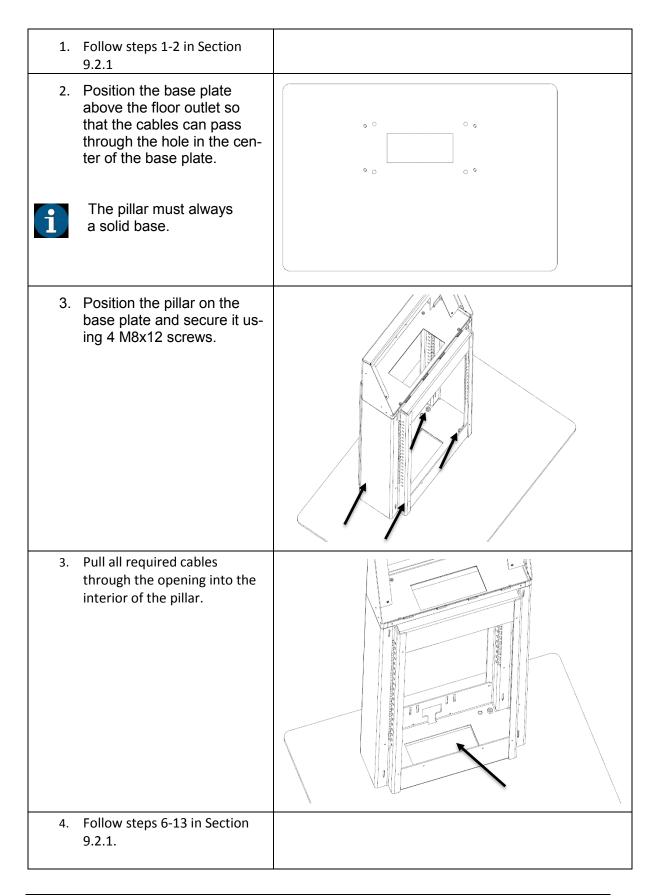




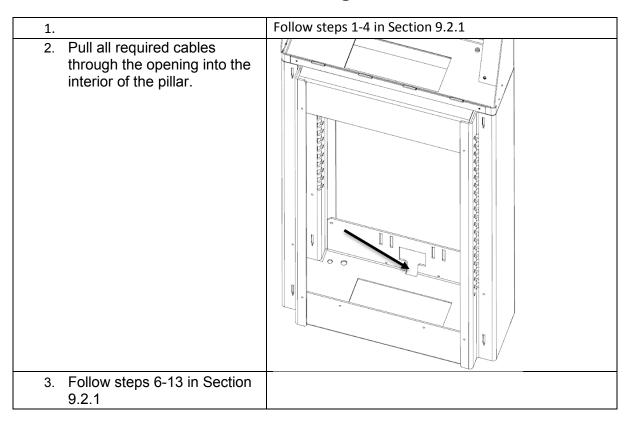


9.2.2 Self-Checkout with floor cabling and optional base plate

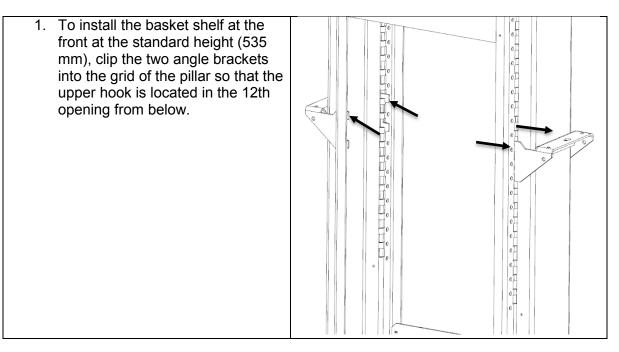
Installation including floor mounting must be carried out by a trained engineer after assessing and evaluating the structural conditions on site.

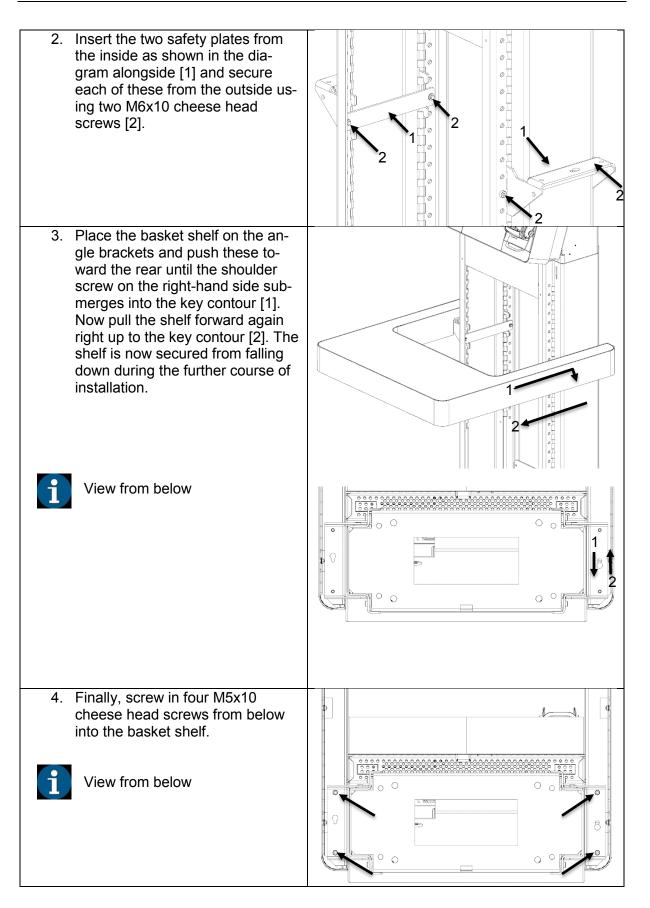


9.3 Self-Checkout with cabling "on the floor"



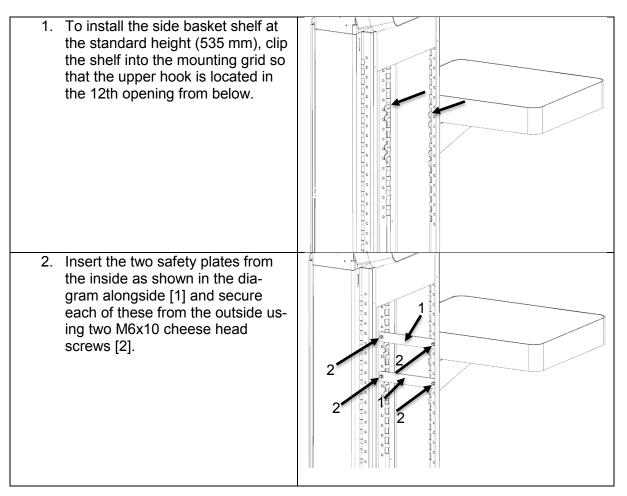
9.4 Installing the basket shelf at front



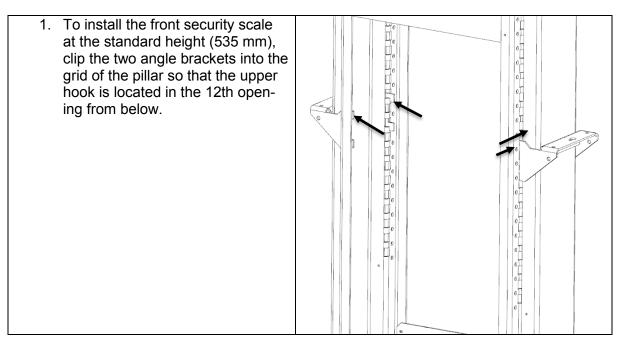


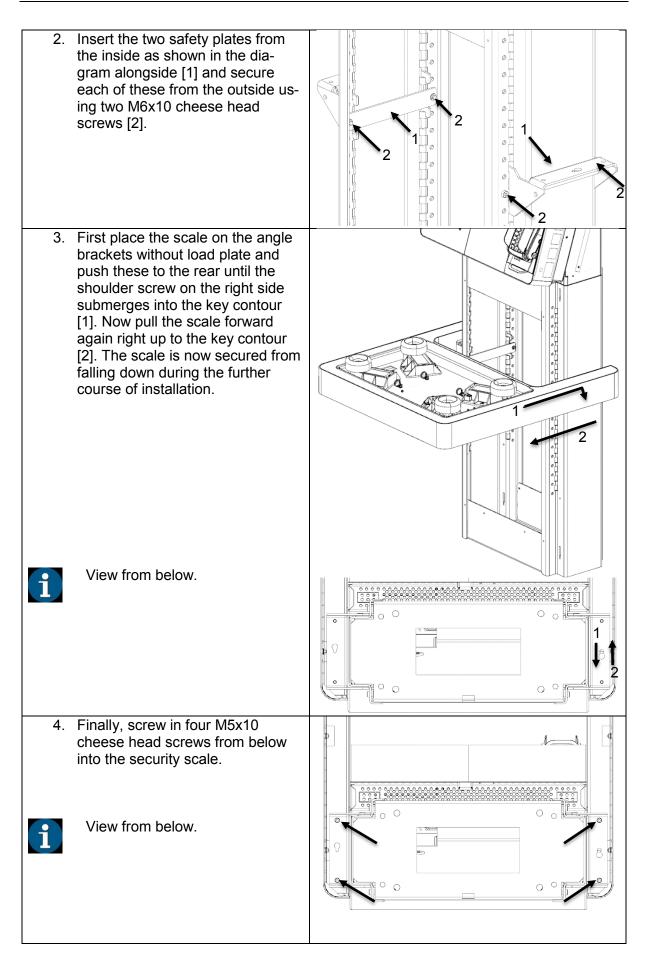
9.5 Installing the basket shelf at side

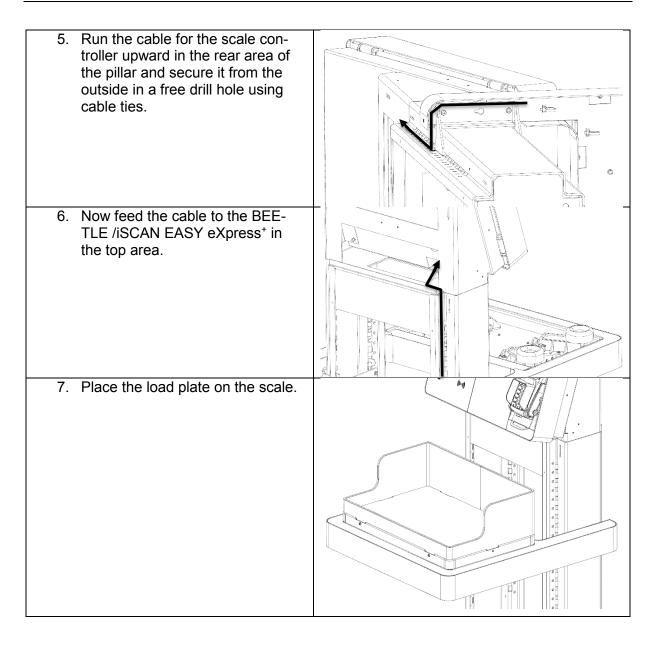
Installation of the basket shelf on the right is described here by way of example, the left basket shelf is secured accordingly on the left-hand side.



9.6 Installing the security scale at front

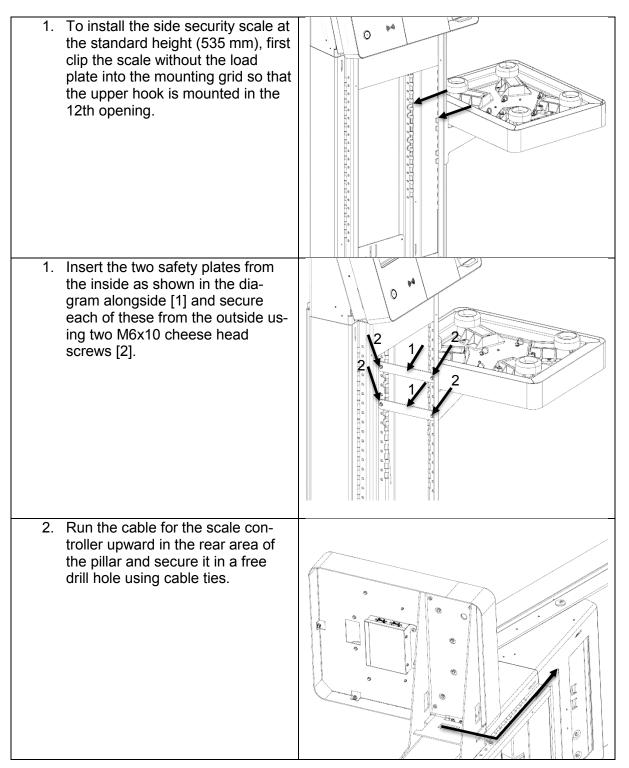






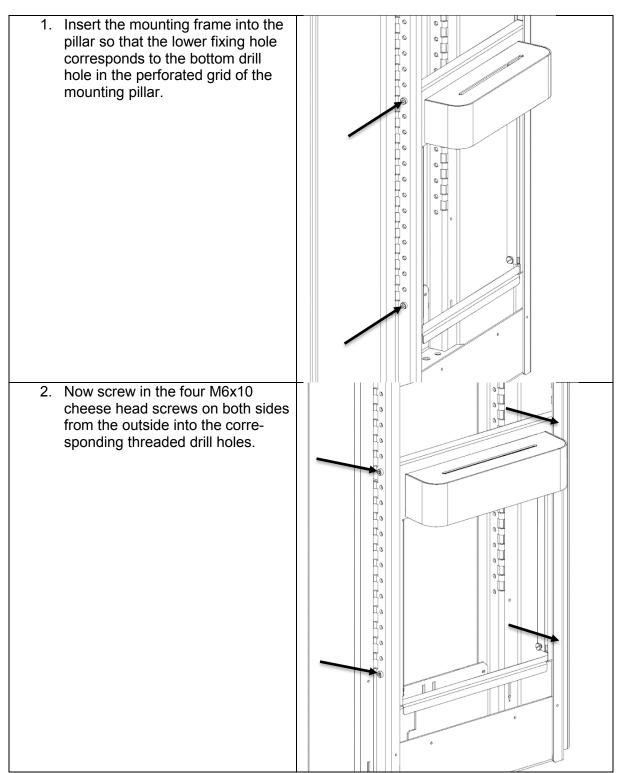
9.7 Installing the security scale at side

The installation of the security scale on the right is described here by way of example, the left security scale is secured accordingly on the left-hand side.



 Now feed the cable to the BEE- TLE /iSCAN EASY eXpress⁺ in the top area. 	
 Place the load plate on the scale. 	

9.8 Installing the coupon box

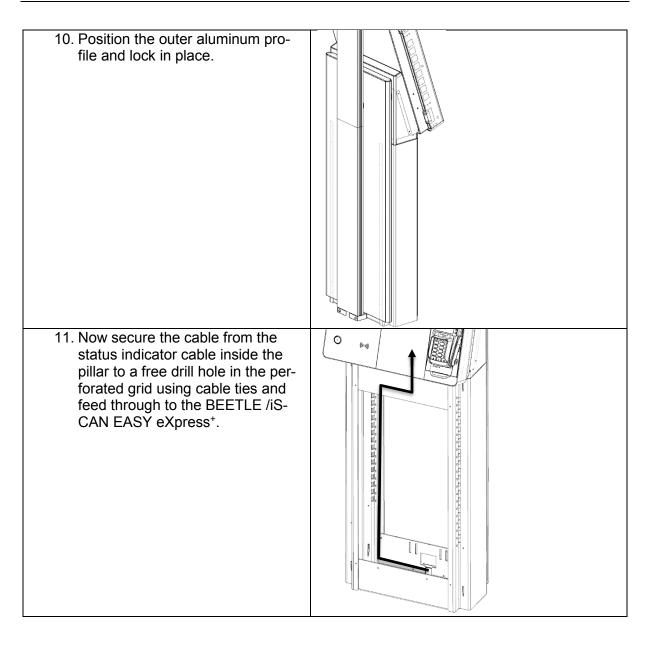


 Secure the cable in free drill holes using cable ties and feed the ca- ble to the BEETLE /iSCAN EASY eXpress⁺. 	
 Insert the coupon box [1], close [2] and finish [3]. 	

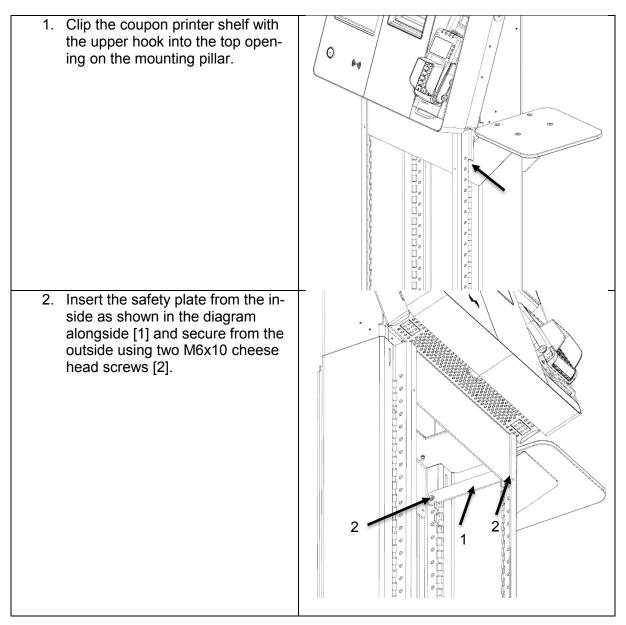
9.9 Installing the signal indicator

 Screw in two M4x6 round head screws halfway into the lower two drill holes on the rear of the pillar. 	
 Place the base plate on the two screws and slide the base down to the floor [1]. Now tighten the screws [2]. 	
 Insert the rear panel and secure with a safety screw. 	
4. Insert the mounting bracket through the upper opening in the rear panel and screw tightly using two M4x6 round head screws.	

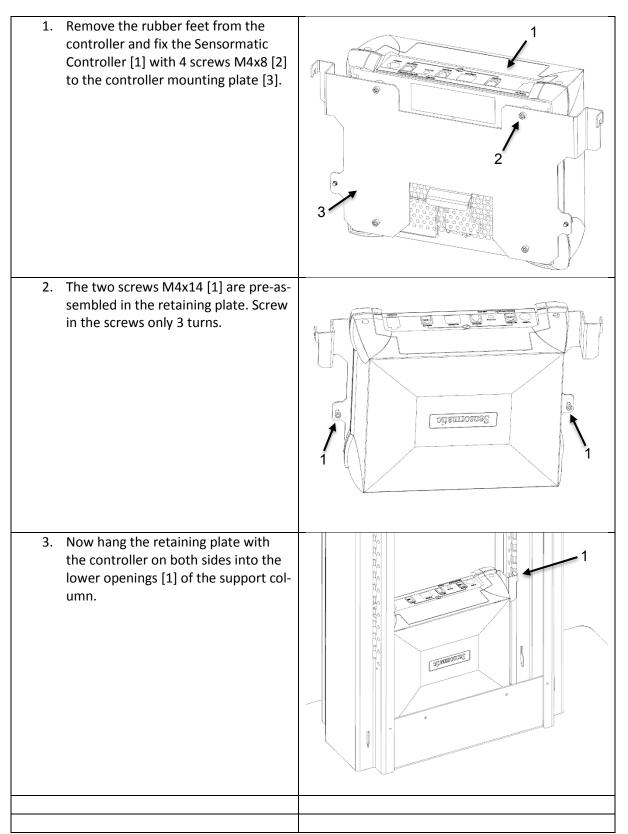
5. Remove the aluminum profile without drill holes (see markings) in the direction of the arrows.	
 Likewise separate the other alumi- num profiles (remove in the direc- tion of the arrows). 	
 7. Connect the aluminum profiles without gaps using four M4x6 round head screws. 	
 Place the connected aluminum profile with status indicator on the base plate and screw tightly to the mounting bracket using two M4x6 screws. 	
9. Feed the cable from the status in- dicator down through the opening in the base plate into the pillar.	

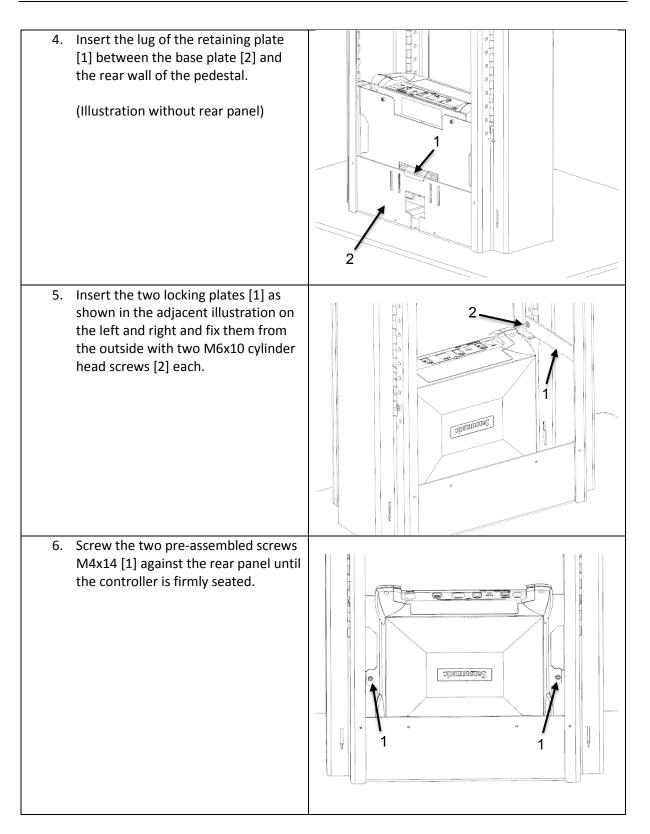


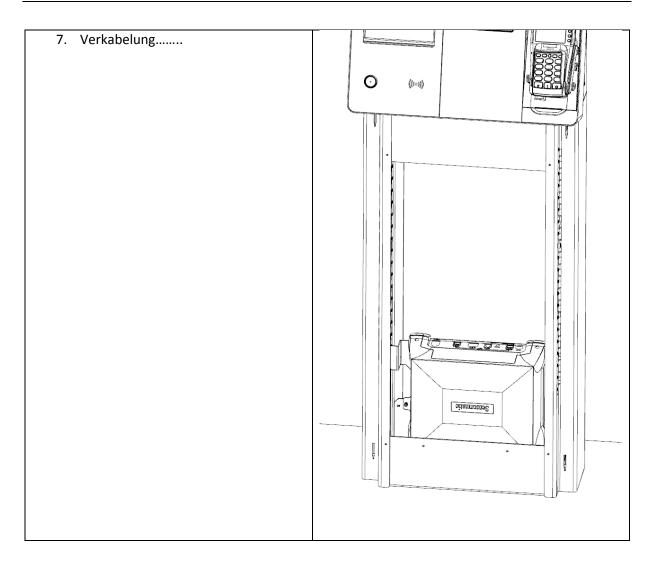
9.10 Installing the coupon printer shelf



9.11 Installation Sensormatic Controller







9.12 Assembly instructions: Wall mounting

9.12.1 Requirements



NOTICE

Installation including wall mounting must be carried out by a trained engineer after assessing and evaluating the structural conditions on site.



The installation must be carried out by two persons.

Risk of crushing! Always wear safety gloves and safety shoes with toe cap, closed heel area and energy absorbing heel area while transporting or assembling the device.

USA: Safety shoes with class 1 toe cap according ASTM F 2412 and ANSI Z41.1 in its current versions.



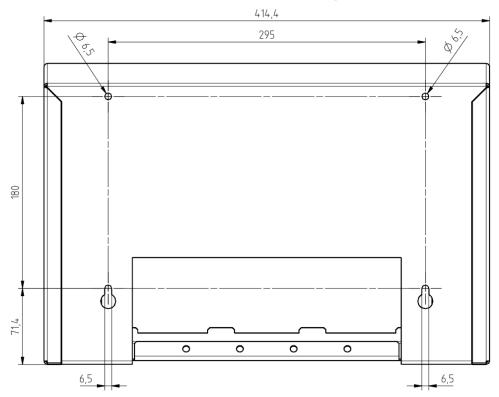
 $\underline{\mathbb{A}}$

CAUTION

Risk of injury! Improper installation can lead to fire or electric shock.

Ensure that no cables are crushed or insulation damaged during installation.

9.12.2 Hole pattern for wall mounting (dimensions in mm)



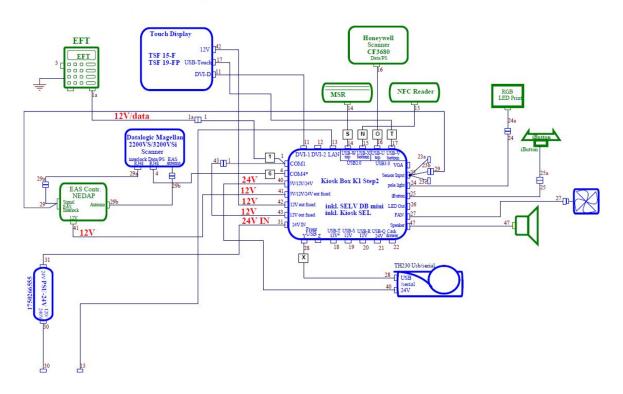
Use four screws of max. 6mm in diameter and suitable dowels depending on the structural conditions on site. The 19" BEETLE /iScan EASY eXpress+ weighs approx. 30kg, while the 15" BEETLE /iScan EASY eXpress+ weighs approx. 28kg. The wall mount itself weighs approx. 3kg.

9.12.3 Installing the wall mount

 Drill the holes for the appro- priate dowels as indicated in the hole pattern of the wall mount. Then screw the lower two screws approxi- mately halfway into the dowels in the wall. 	
2. Clip the wall mount into the lower two screws through the keyholes and press downward to align all four holes in the wall mount to the dowels in the wall.	
 Screw in the two missing screws and tighten all four screws. 	
 Slide all necessary cables (power cable, LAN cable, etc.) through the opening in the wall mount and secure in the holes with the cable ties. Position the connect- ors in the front left-hand area so that they can be connected to the BEETLE /iScan EASY eXpress+ in the next steps. 	

5. Screw the upper two M6x10 cheese-head screws halfway into the wall mount.	
 Attention: Two people are needed to position the kiosk on the pillar. 6. First insert the closed BEE- 	
TLE /iSCAN EASY eX- press ⁺ below into the sheet metal tabs of the pillar adapter [1].	
Then raise the BEETLE /iSCAN EASY eXpress ⁺ and clip into the upper snap hooks and screws of the pillar adapter [2].	
 Open the BEETLE /iScan EASY eXpress+ and insert the two missing M6x10 screws in the underside and tighten all four screws. 	
8. Please consult the Installa- tion Guide for information on connecting the device.	

10 Block diagram



EASY eXpress+

The optional components are highlighted in green.

Diebold Nixdorf D-33094 Paderborn Order no.: 01750301911A