



Device Manual

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© Scheidt & Bachmann GmbH
Parking Solutions
Breite Strasse 132
41238 Moenchengladbach
Germany
www.scheidt-bachmann.com
Subject to change

Author: Peter Schiffer

Modification log:

Refer to chapter "Record of Revisions"

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Parking solutions
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41238 Moenchengladbach
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Contents

1	About this Manual	3
2	Safety.....	4
2.1	Signal Words and Symbols Used.....	4
2.2	General Safety Instructions.....	5
3	Introduction.....	6
3.1	Intended Use.....	6
3.2	Energy and Environmental Aspects	6
4	Product Description.....	7
5	Mounting, Connection and Putting into Operation	8
5.1	Pole Mounting	8
5.1.1	Condition of Subsoil	9
5.1.2	Required Fixtures	9
5.1.3	Tools needed	9
5.1.4	Procedure.....	9
5.2	Connections.....	10
5.2.1	Schematic Diagramme with entervo.barrier	11
5.2.2	I/O Expander	12
5.2.3	entervo.lane Operating Module (Baseboard PTL40)	15
5.3	Putting into Operation.....	16
5.3.1	Configuration Steps at the Cell Computer	16
5.3.1.1	Add entervo.lane to the System Geometrie and Configure Device	17
5.3.2	Configuration Steps at the Field Device	17
5.3.3	Change Configuration Parameters.....	20
6	Maintenance and Servicing.....	21
6.1	Housing	21
6.2	Display	21
6.3	Scanner	21
6.4	Stainless Steel Stand	21
6.5	Barcode Positioner made of Acrylic Glass	22
7	Spare Parts	23
8	Disposal	24
8.1	Disposal by Scheidt & Bachmann.....	24
9	Technical Specifications	25
9.1	Dimensions.....	26

10	Index	27
11	Record of Revisions.....	29
12	Notes.....	30

1 About this Manual

This manual is part of the product. Please read this manual carefully before mounting and commissioning of the product and keep it for future reference.

This manual is aimed at the following target groups:

- ☐ Service technician who install, maintain and repair the equipment
- ☐ Car park operators
- ☐ Operating and service personnel
- ☐ Maintenance personnel

The tasks described in this manual must only be conducted by specialized personnel or people with appropriate training!

2 Safety

2.1 Signal Words and Symbols Used

The following signal words are used to indicate risks:

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.








⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

This refers to information or a potential risk that may lead to property damage.

The signal words listed above are often used in combination with one or more of the following symbols:

	Note / General information
	Wear protective clothing!
	Wear protective gloves!
	Before carrying out work on this unit, disconnect the power supply network!
	General warning that must be observed!
	Warning of dangerous electrical power!
	Caution: Considerable weight!

2.2 General Safety Instructions

- ☐ Read and understand all instructions!
- ☐ The device conforms to the relevant safety regulations. Repairs must be carried out by specially trained S&B staff only. Improper repairs can result in serious danger to the user.
- ☐ The device may only be opened and maintained by people who have been trained and informed in detail about all safety instructions by Scheidt & Bachmann.
- ☐ Only use original spare parts or parts to prevent subsequent damage.
- ☐ The assembly, installation and maintenance must be carried out by personnel trained by Scheidt & Bachmann.
- ☐ The generally accepted rules of electric engineering as well as the generally accepted rules of mechanical engineering shall be binding for all work performed on the device!
- ☐ The requirements for the installation location must be strictly observed.
- ☐ All national and regional requirements for fire protection must be considered.
- ☐ Make all connections according to the system specifications and standards.
- ☐ All branch circuits for hard-wired units must be suitable for the unit ratings.
- ☐ All external DC sources need to be in compliance with the "Limited Power Source" or "Class 2" requirements. All internal DC sources are already in compliance.
- ☐ Replace fuses with the same type and rating.
- ☐ Never perform any interventions, modifications or changes on the device.
- ☐ The installation of optional equipment to be installed on-site must only be carried out by persons trained by Scheidt & Bachmann by using conversion kits.
- ☐ Do not allow any electrically conductive objects to fall inside the device. These objects can cause short circuits and damage the device.
- ☐ Do not store flammable liquids in the housing.
- ☐ Restart the device in case of an unexpected malfunction. If the device then does not operate, please contact one of the Scheidt & Bachmann service points.

The following notes relate to the scanner devices:

- ☐ The scanners function with the help of an LED positioning aid. Laser technology which may endanger the eyes is not used.
- ☐ Only scanners with an LED positioning aid authorised by Scheidt & Bachmann may be used.
- ☐ Use the scanner only as specified in the manual.
- ☐ No liability is accepted for hazards caused by self-procured and self-installed laser scanners.

3 Introduction

3.1 Intended Use

The device is intended exclusively for checking parking media. A barcode reader for 1D parking tickets and 2D e-tickets, as well as an RFID reader are integrated for this purpose. The option of connecting external technologies, such as IP-based Kathrein UHF readers or LPR cameras, allows the range of applications to be expanded. When valid parking media are detected, the connected barrier is opened via the integrated I/O interface.



Media processing technologies are integrated individually according to project requirements.

The device is designed to be operated from a vehicle and is suitable for both indoor and outdoor installation.

Disclaimer

Any other use or extended use is considered to be use other than intended. The manufacturer declines to bear any responsibility for damage resulting therefrom. Any modifications are only permitted with the manufacturer's retrofit kits.

The device must only be commissioned and operated if it is in proper working condition. Every instance of misuse leads to the termination of the warranty, guarantee and general liability of the manufacturer.

The device must be installed by an authorised electrician, who is responsible for observing existing standards and regulations.

3.2 Energy and Environmental Aspects

This manual contains instructions for the installation and operation of Scheidt & Bachmann products and for the disposal of packaging, waste, consumables and the like as well as instructions for the disposal of the described Scheidt & Bachmann product at the end of its use.

These instructions supplement existing legal regulations. Irrespective of the instructions in this manual, those responsible for installation, operation and disposal are obliged to comply with local, regional and national safety, environmental and waste disposal regulations.

4 Product Description



Fig. 1: entervo.lane

The device consists of the following components:

- ☐ Control device, identical construction to the door reader "entervo.key"
- ☐ Stainless steel pole, optionally barcode positioner made of acrylic glass
- ☐ Printed circuit board "IO Expander" for the direct connection of an S&B barrier

(This circuit board is located in the lower part of the pole)

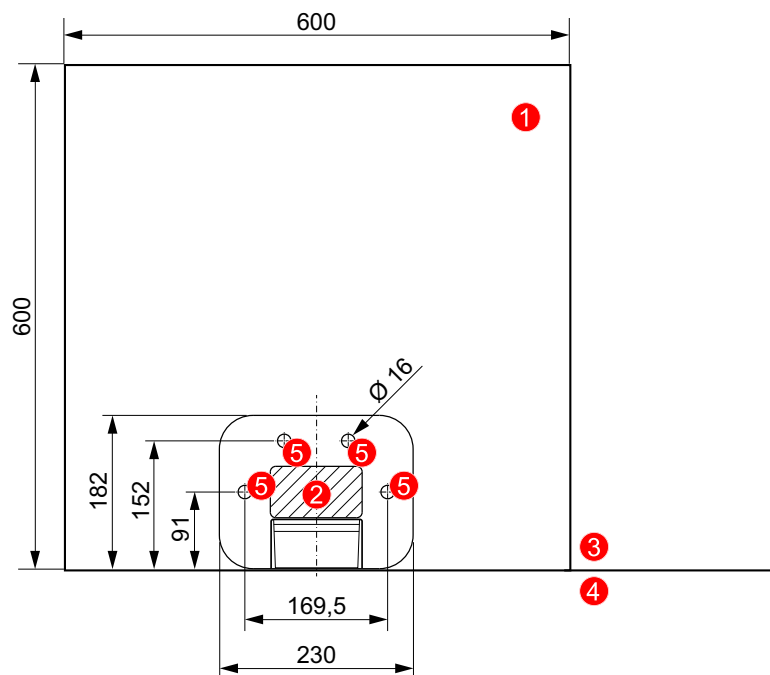
5 Mounting, Connection and Putting into Operation

5.1 Pole Mounting



NOTICE

Before mounting the pole, the I/O Expander must be connected (see chapter 5.2.2). The circuit board is pushed into the stand from below with a special fixture and fixed with two knurled screws.




- ① Concrete foundation C 20/25
Curb height between 130 and 170 mm
Attention: Frost foundation must be guaranteed!
- ② Cable or conduit outlet area
- ③ Curb
- ④ Driveway
- ⑤ 4 mounting holes \varnothing 16 mm

Fig. 2: Pole mounting

5.1.1 Condition of Subsoil

The installation will be on a site to be created, according to the Scheidt & Bachmann GmbH (L x W x D = 600 mm x 600 mm x 800 mm and depth on regional conditions to ensure frost protection). The drilling depth is determined by the dowel norm. Note the plumbline alignment.

5.1.2 Required Fixtures

	⚠ WARNING
	Toppling device! Significant risk of accident in case of improper fastening! - Careful use of high-quality fastening materials is imperative!

Fastening-parts kit:

The unit is supplied with a fastening-parts kit containing the following parts:

For mounting the stand:

- ☐ 4 threaded rods made of stainless steel M10*150 FIS A A4 NO.090448
- ☐ 4 washers made of stainless steel M10 200HV ISO 7093-1
- ☐ 4 cap nuts made of stainless steel M10 DIN 1587-1.4301

To install the threaded rods you also need the UPAT injection mortar UPM 44-360, which is not included in the scope of delivery.


For mounting the control device on the pole:

- ☐ 4 stainless steel Torx flat head screws M 4*16


5.1.3 Tools needed

You need the following tools for the assembly and installation:

- ☐ Impact drill; better: Rotary hammer
- ☐ 12-mm concrete drill
- ☐ 17-size mouth or ring spanner

	NOTICE
	<i>Follow the safety instructions of the tool manufacturer.</i>

5.1.4 Procedure

	⚠ WARNING
	Flaking concrete splitter and whirling dust! Be careful when drilling! - Wear protective clothing when drilling! - Never wear loose clothing, as it may become entangled in the moving parts of the hammer!

- 1 Mark and drill the mounting holes (diameter of 12 mm, depth of approx. 140 mm).
 - 2 Clean holes thoroughly.
 - 3 Inject mortar from bottom to top without creating any air bubbles.
 - 4 Insert rods: Screw in rods with the thread slowly. The rod must stick out 15 mm from the drill hole. Do not move any more until the curing time has expired.
 - 5 Screw the base plate of the stand with the cap nuts and washers after the curing time has expired.
- ✓ The mounting of the stand is completed.

5.2 Connections

Power supply

The power supply is provided by 24V DC voltage (LPS/Limited Power Source), which is provided by suitable external devices. The voltage can, for example, be provided by the "entervo.barrier" or via an additional kit in the AS30 or AS32 barrier. The connection point for the power supply is the I/O Expander board.

Only power supply units which meet the requirements for a limited power source (LPS) are permitted!

Network connection

The network connection is established via an RJ45 socket.

Barrier connection

The connected barrier is controlled and monitored via the I/O Expander board.

Inductive loops

The signals from 2 double detectors can be read in via corresponding inputs on the I/O Expander.

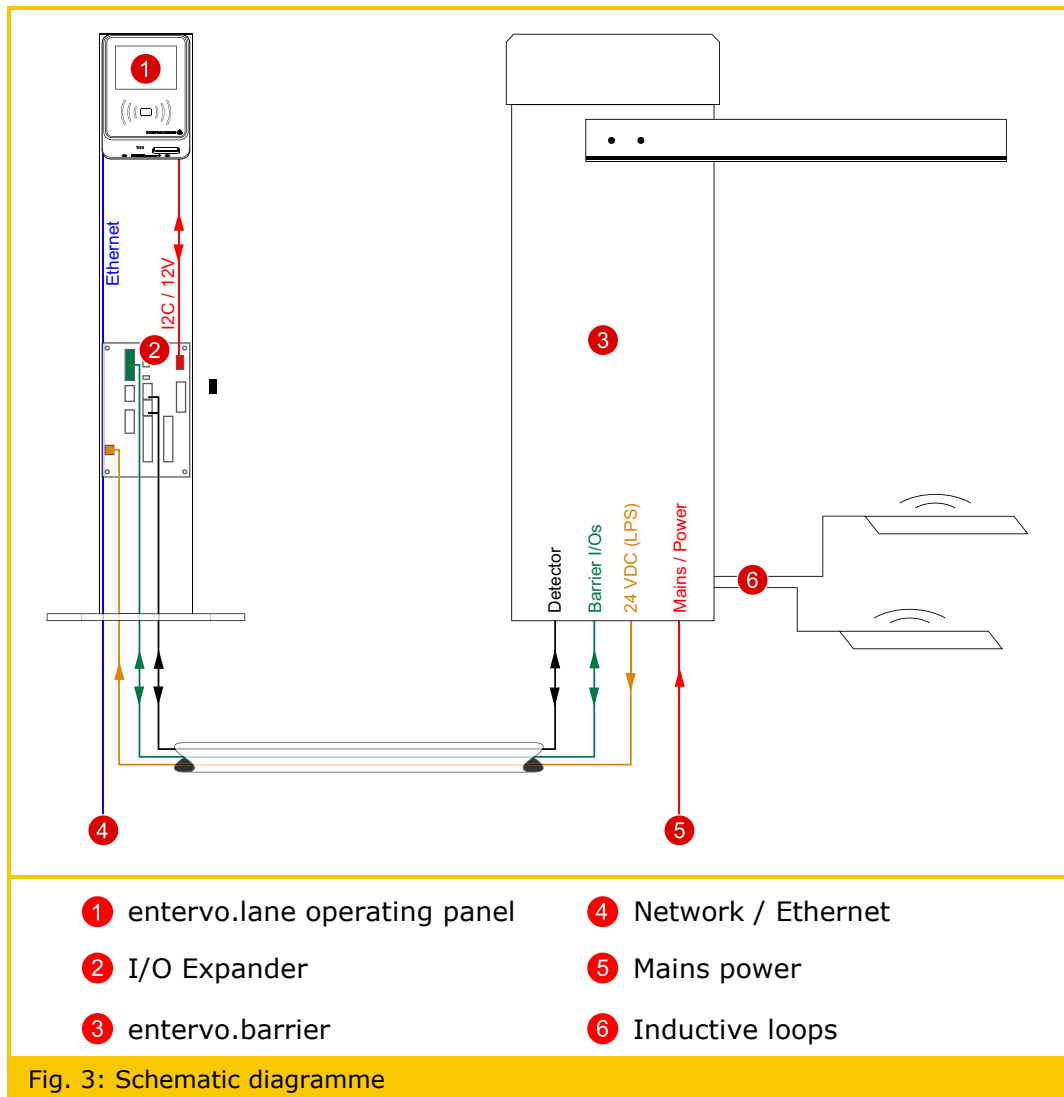
Project in and outputs, Relays

For project-specific requirements, 8 digital inputs and 8 digital outputs are available on the I/O Expander board. Furthermore, 4 relays with changeover contact are available (2 relays each on the door reader PCB and 2 on the IO Expander).

Power supply for optional OEM devices

The I/O Expander board provides 12 VDC (max. 2 A) and 24 VDC (max. 1 A) for the power supply of optional OEM devices.

5.2.1 Schematic Diagramme with entervo.barrier



5.2.2 I/O Expander

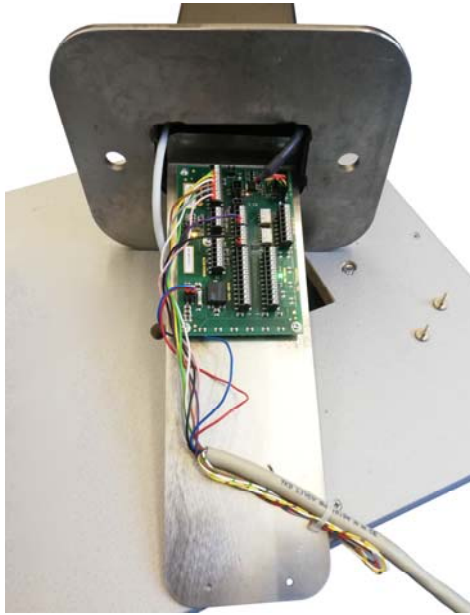


Fig. 4: I/O Expander – Installation position

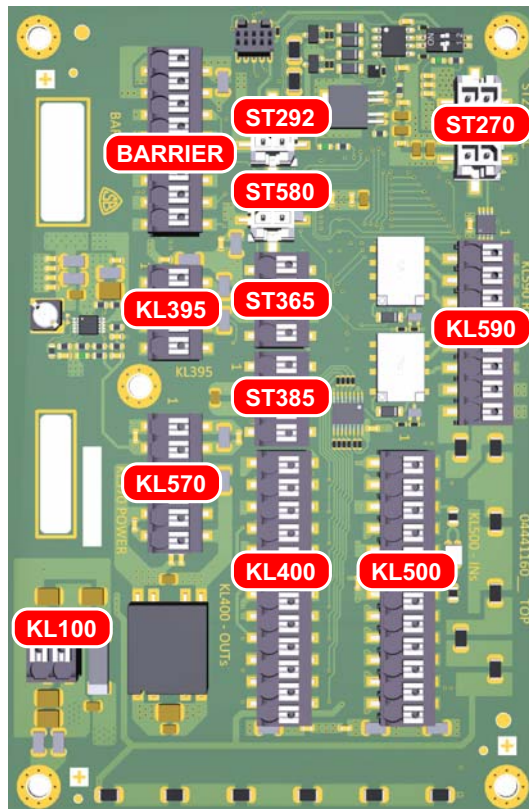


Fig. 5: I/O Expander – Connections

Pos.	Connection
KL100	Power supply (input voltage LPS) Pin 1: +24VF Pin 2: GND24VF
BARRIER	Barrier gate Pin 1: GND24VF Pin 2: +24VF_PROTECTED Pin 3: IN_BARRIER_INDUF Pin 4: IN_BARRIERARM_DISCONNECTED Pin 5: IN_ENDPOSITION_CLOSED Pin 6: IN_ENDPOSITION_OPENED Pin 7: OUT_CLOSE_BARRIER Pin 8: OUT_OPEN_BARRIER
KL395	Door contact Pin 1: +24VF_PROTECTED Pin 2: IN_DOORCONTACT Pin 3: GND24VF Pin 4: GND24VF
KL570	Power supply for optional OEM devices Pin 1: GND12V Pin 2: +12V Pin 3: GND24VF Pin 4: +24VF Pin 5: GND24VF Pin 6: +24VF
KL400	8 x Project outputs Pin 1: GND24VF Pin 2: OUT_1 Pin 3: GND24VF Pin 4: OUT_2 Pin 5: GND24VF Pin 6: OUT_3 Pin 7: GND24VF Pin 8: OUT_4 Pin 9: OUT_5 Pin 10: OUT_6 Pin 11: OUT_7 Pin 12: OUT_8
KL500	8 x Project inputs Pin 1: +24VF_PROTECTED Pin 2: IN_1 Pin 3: +24VF_PROTECTED Pin 4: IN_2 Pin 5: +24VF_PROTECTED Pin 6: IN_3 Pin 7: +24VF_PROTECTED Pin 8: IN_4 Pin 9: IN_5 Pin 10: IN_6 Pin 11: IN_7 Pin 12: IN_8

Pos.	Connection
KL590	2 x Relay (30VDC / max. 1.0A switching capacity) Pin 1: Relay 1: relay output / normally open Pin 2: Relay 1: relay input Pin 3: Relay 1: relay output / normally closed Pin 4: Relay 2: relay output / normally open Pin 5: Relay 2: relay input Pin 6: Relay 2: relay output / normally closed Pin 7: +24VF Pin 8: GND24VF
ST292	Fan (not in use)
ST580	Intercom Interface (not in use)
ST365	Double detector 1 Pin 1: IN_Barrier loop Pin 2: GND 24VF Pin 3: +24VF Pin 4: IN_Device loop
ST385	Double detector 2 Pin 1: IN_Additional loop 2 Pin 2: GND 24VF Pin 3: +24VF Pin 4: IN_Additional loop 1
ST270	I²C Interface and power supply for door reader Pin 1: Chassis_2 Pin 2: SDA Pin 3: SCL Pin 4: INT_I2C Pin 5: GND24VF Pin 6: +12V Pin 7: GND Pin 8: +5V

5.2.3 entervo.lane Operating Module (Baseboard PTL40)

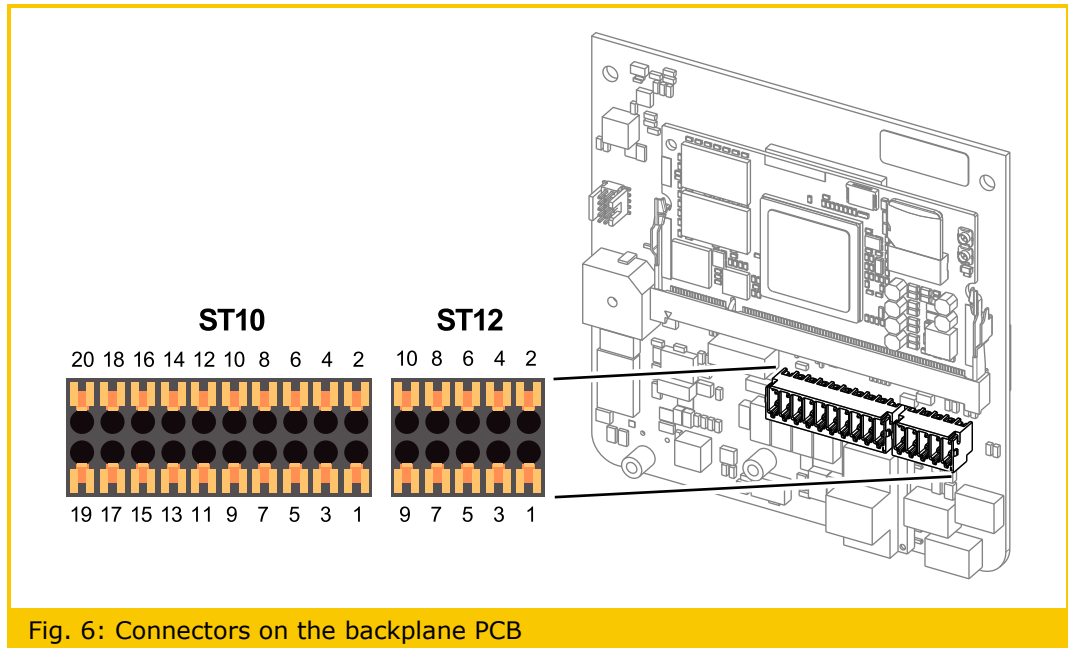



Fig. 6: Connectors on the backplane PCB

The two connectors ST10 and ST12 are equipped with push-in connectivity to accept cables with core end sleeves.

The pin assignment can be found in the following tables:

Pin	Description
Plug ST10	
1	Power supply: 12V DC (Do not connect if the power supply is via PoE)
2	Power supply: GND (Do not connect if the power supply is via PoE)
3	Relay 3: relay output / normally closed
4	Relay 3: relay input
5	Relay 3: relay output / normally open
6	Relay 4: relay output / normally closed
7	Relay 4: relay input
8	Relay 4: relay output / normally open
9	I2C1_SCL_EXT (I ² C-Bus, Serial Clock)
10	I2C1_SDA_EXT (I ² C-Bus, Serial Data)
11	INT_IO_EXT
12	GND
13	Optoelectronic output 2: OUT_2_C


Pin	Description
14	Optoelectronic output 2: OUT_2_E
15	Optoelectronic output 1: OUT_1_C
16	Optoelectronic output 1: OUT_1_E
17	Optoelectronic input 1 (controlled with 12 – 24 V DC (± 5 V))
18	Optoelectronic input 1: GND_IN
19	Optoelectronic input 2 (controlled with 12 – 24 V DC (± 5 V))
20	Optoelectronic input 2: GND_IN

	NOTICE
	Use the pre-assembled cable to establish the connection between the connectors ST10 on the baseboard PTL40 and ST270 on the IO Expander board.

Pin	Description
Plug ST12 (Ethernet)	
1 - 10	Network connection (Use pre-assembled cable for connection to the RJ45 socket!)

5.3 Putting into Operation

5.3.1 Configuration Steps at the Cell Computer

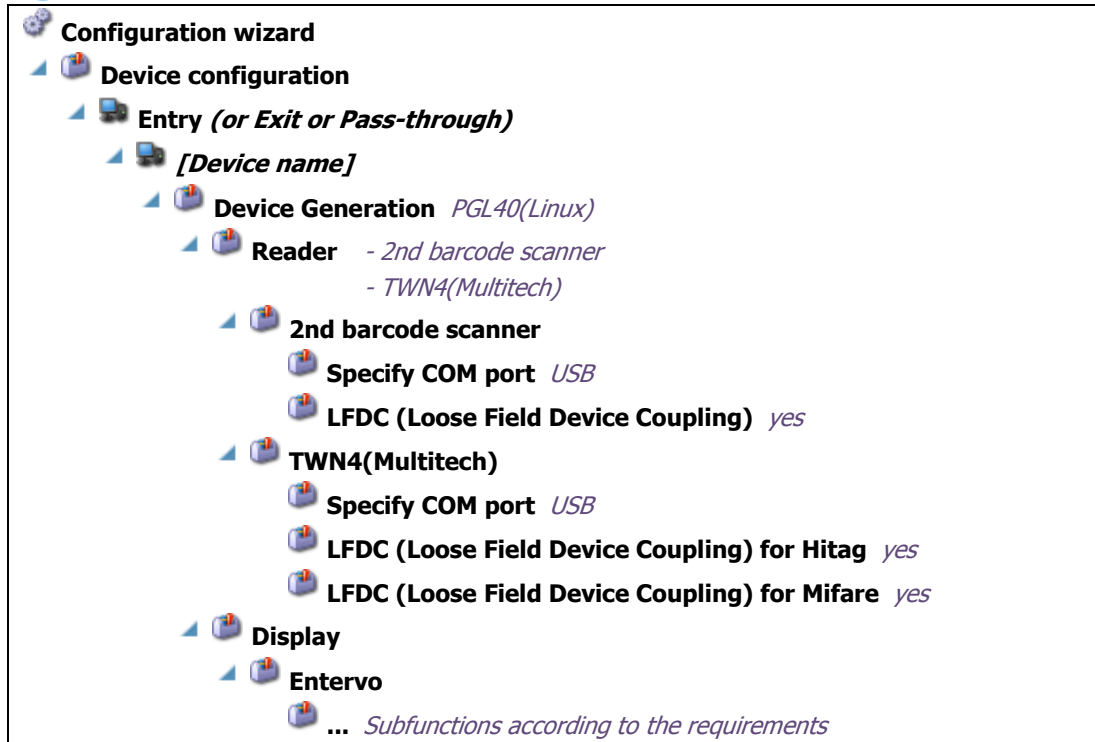
	NOTICE
	At least the service pack SP120 for field devices must be installed on the cell computer! Check the version on the cell computer in the file <code>c:\dfue\linux\version.ini</code> .

The following steps must be carried out on the cell computer which are explained below:

1. Install latest service pack for field devices.
2. Install latest control files for the Configuration Wizard.
3. Use Configuration Wizard to add the field device to the system geometry.
4. Set configuration parameters of the field device.
5. Apply Configuration Wizard settings to the cell computer and then reboot the cell computer.


5.3.1.1 Add entervo.lane to the System Geometrie and Configure Device

- 1 Start **Configuration Wizard** and add the door reader to the system geometry. Configure the device according to its use as an entry, exit or passage.
- 2 Set the following parameters:



- 3 Activate further functions as required.
 - 4 Click **Apply configuration** and update the configuration.
 - 5 Reboot cell computer.
- ✓ You can now continue with the configuration steps on the entervo.lane.

5.3.2 Configuration Steps at the Field Device

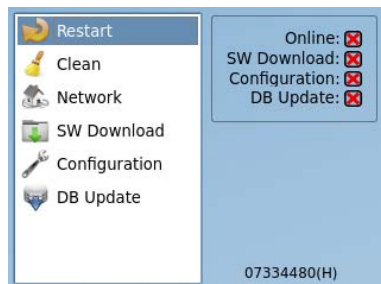
	NOTICE
	<p>Before commissioning, check whether the SD card with the S&B part number 07 33468 0 is inserted in the CPU module. The index must be at least H!</p>

Configure the field device as follows:

- 1 After the first boot the service mask of the field device appears:



- 2 Tap **Press here for Service Mode**. Then the following selection menu appears:



- 3 Tap **Network** and enter the network parameters:

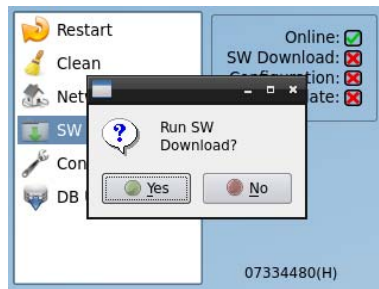
If network parameters are already visible (current IP), they were assigned by the DHCP server. If the data is changed manually, the device automatically switches from DHCP to manual configuration.

All entries can be made by typing into the corresponding fields. No keyboard is required. Enter:

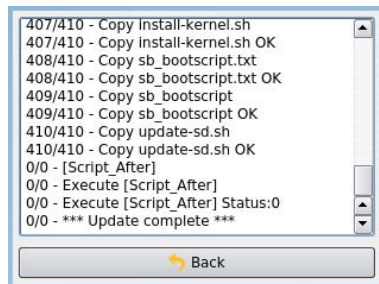
- Device number of the field device (**Dev**)
- Number of the host ZR (**ZR**)
- IP address of the field device (**IP**)
- Subnet mask for the IP address (**Mask**)
- Gateway (**GW**)
- IP address of the host ZR (**ZR IP**)

- 4 Once all the data has been entered, tap on the green check mark. The field device restarts and the service mask reappears.

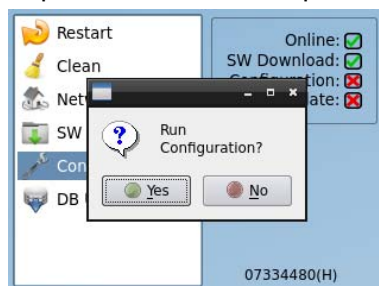
- 5 Tap **SW Download** in order to download the service pack from the cell computer:



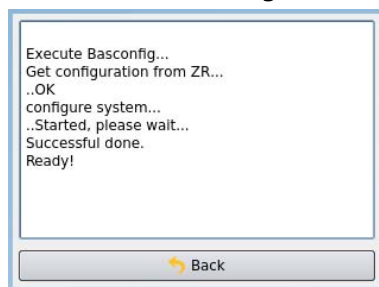
- 6 Confirm the message and wait until ***** Update complete ***** appears:



- 7 Tap **Back** and then tap **Configuration**.



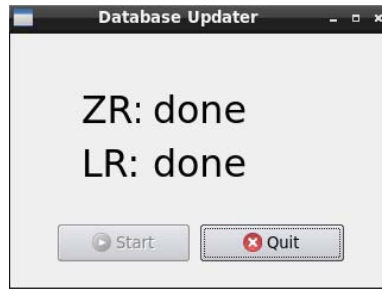
- 8 Confirm the message and wait until **Ready** appears:



- 9 Tap **Back** and then tap **DB Update**.



- 10 Tap **Start** and wait until the status **done** appears for **ZR** and **LR**:



- 11 Tap **Quit**. The configuration is completed. Now press **Restart** to reboot the field device.

- ✓ The service mask is displayed for approx. 10 seconds. The field device then goes into operation:



5.3.3 Change Configuration Parameters

If the parameters described above have to be changed subsequently, reboot the device. **Press here for Service Mode** is displayed for about 10 seconds. Tap this button and follow the instructions in the previous chapter.

6 Maintenance and Servicing

The PVT40/C device is due to its construction a maintenance-free device and requires only cleaning LCD display, general check of functionality and cleaning the surface of housing.

6.1 Housing



If necessary, clean the plastic housing with a soft, lint-free cloth. If heavily soiled, moisten the cloth with a rinsing solution.

6.2 Display



Clean screen with a soft cloth. For persistent dirt, use a textile cloth that has been slightly dampened with a mild detergent. Alternatively, you can use a special screen cleaner.

6.3 Scanner




Clean glass of scanner with a soft cloth. For persistent dirt, use a textile cloth that has been slightly dampened with a mild detergent.

6.4 Stainless Steel Stand

The steel grade used is rustproof. However, a certain amount of care should also be given to the stainless steel surfaces in order to maintain a good visual appearance and remove dirt and deposits. Please observe the following instructions for cleaning:


- ☐ When installed outdoors, the cleaning effect of rain is generally sufficient to prevent harmful deposits.
- ☐ When installed indoors, the focus is on preventive care in an atmosphere containing chlorine and on avoiding and removing fingerprints.
- ☐ With the brushed surfaces, fingerprints are an initial phenomenon. After a few cleaning cycles, their visibility decreases significantly.
- ☐ A detergent solution is usually sufficient to remove fingerprints.
- ☐ Chrome polishes from the automotive sector can also be used to refresh heavily soiled surfaces.

	NOTICE
	<p><i>The following cleaning agents must NOT be used:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Products containing chloride, especially hydrochloric acid</i> <input type="checkbox"/> <i>Bleaching agent (in case of accidental use or spillage on stainless steel rinse thoroughly with clean water)</i> <input type="checkbox"/> <i>Silver polish</i>

6.5 Barcode Positioner made of Acrylic Glass

Acrylic glass has a non-porous surface to which dirt finds it difficult to adhere. The following instructions should be observed when cleaning acrylic glass:

- ☐ Always clean acrylic glass surfaces wet! Dry cleaning can lead to scratches in the surface.
- ☐ Use a lukewarm detergent solution, a soft cloth, sponge or chamois leather - also for drying.
- ☐ To remove scratches, you can use commercially available acrylic glass polishing pastes.

	NOTICE
	<p><i>The following cleaning agents must NOT be used:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Abrasive and harsh cleaning agents</i> <input type="checkbox"/> <i>Spray cleaner for glass windows or other cleaning agents containing alcohol</i> <input type="checkbox"/> <i>Floor cloth or brushes</i> <input type="checkbox"/> <i>Paint thinner or solvents such as acetone or similar</i>

7 Spare Parts

Only use spare parts which have been manufactured or approved by Scheidt & Bachmann.

Only our genuine spare parts are designed for installation und use in our devices and guarantee reliable operation and a long service life even under the toughest conditions. You considerably contribute to a trouble-free operation of you sys-tem if you use our genuine spare parts in combination with our genuine consumables.



NOTICE

For further information on spare parts, please refer to the separate spare parts catalogue.

8 Disposal



Packaging materials must be disposed of according to local regulations.



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.



Disposing of batteries into household garbage is not permitted; you are bound by law to return used batteries. Used batteries can contain harmful substances which can damage the environment or your health when not disposed of correctly. Batteries also contain important commodities such as iron, zinc, manganese or nickel which will be recycled. You may send the used batteries back to us, or you can return them to your local recycling center free of charge (recommended). The symbol of the crossed waste container is a warning against disposing of hazardous materials into household garbage.

8.1 Disposal by Scheidt & Bachmann

In Europe, Scheidt & Bachmann is bound by the European directives WEEE 2012/19/EU for the disposal of waste electrical and electronic equipment, which in Germany has been implemented in the electrical and electronics equipment law (ElektroG). Scheidt & Bachmann is registered with the EAR foundation (Elektro-Altgeräte-Register®) under the number DE15116312.

Scheidt & Bachmann is obliged to take back delivered old equipment at the end of the product life and to dispose of them properly.

For the disposal of your old equipment, please contact Scheidt & Bachmann or the service company responsible for you.

9 Technical Specifications

Function:

- ☐ Control of external barrier

Access authorisation:

- ☐ RFID reader for the following media types:
 - Scheidt & Bachmann transponder cards (Hitag read/write)
 - Mifare or HID (read-only operation)
- ☐ Illuminated 1D/2D barcode scanner for parking tickets and QR codes (e.g. Scheidt & Bachmann eTickets)

User Guidance:

- ☐ Display with intuitive operator guidance and optimal readability:
 - Screen diagonal: approx. 9 cm (3.5")
 - Resolution: 320 x 240 Pixels (QVGA)
 - Illuminance: >450 cd/m²
 - Sensor controlled brightness for particular durability and low power consumption

Control unit:

- ☐ Baseboard with CPU module
- ☐ 8 GB SD card

Connections:

- ☐ Ethernet connector via clamping connector
- ☐ External power supply (24 VDC LPS)
- ☐ 4 potential-free relay change-over contacts. Nominal switching capacity of the relays: max. 30 VDC or 30 VAC, max. 1.0 A
- ☐ S&B barrier gate
- ☐ 8 digital inputs
- ☐ 8 digital outputs

Power consumption:

- ☐ Approx. 7 W
- ☐ Annual energy consumption: approx. 60 kWh

Housing:

- ☐ Robust plastic housing with durable glass panel
- ☐ Ingress protection rating according to IEC 60529: IP65

Mounting:

- ☐ Suitable for outdoor installation

Weight:

- ☐ Approx. 10 kg

Environmental conditions:

- ☐ Operating temperature range: -20 to +50°C
- ☐ Relative air humidity: < 95%

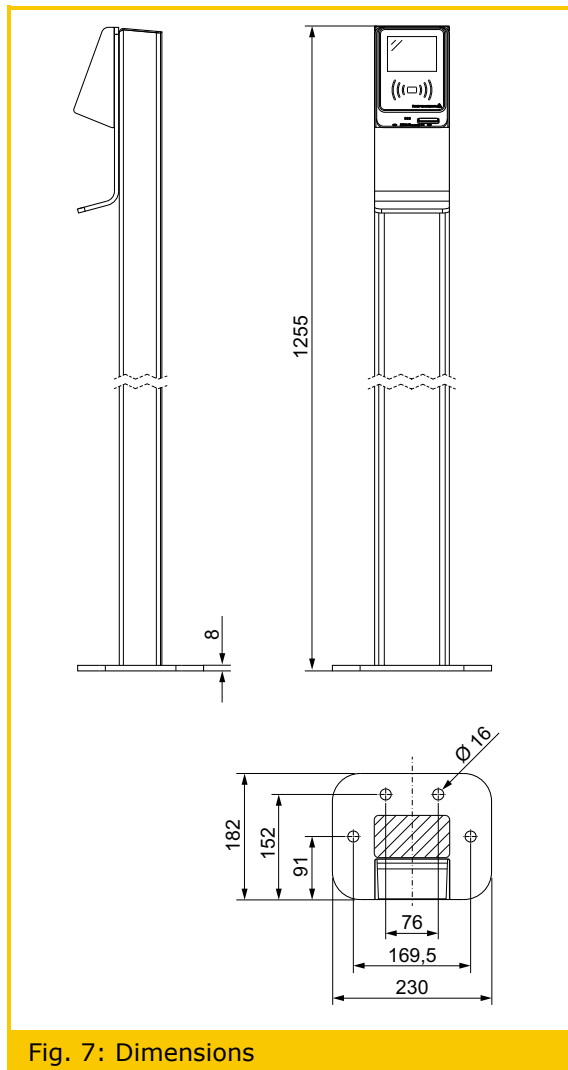
Noise emission:

- ☐ Sound pressure = 0 dB (A) thanks to fanless operation

Approvals and conformity:

- ☐ CE Declaration of Conformity
- ☐ Approval name according to name plate affixed to the device: PTL40

9.1 Dimensions



10 Index

A

Approvals 26

B

Barcode scanner 25
Barrier connection 10
Baseboard 25
Batteries 24
Brightness 25

C

Cap nut 9
CAUTION 4
Conformity 26
Control unit 25
CPU module 25
Curb 8

D

DANGER 4
Display 21
Disposal 24

E

Energy aspects 6
Environment 24
Environmental aspects 6
Environmental conditions 25
Ethernet 16, 25

F

Fastening-parts kit 9
fuses 5

G

Glass panel 25

H

Hazardous materials 24
HID 25
Housing 25
Humidity 25

I

I/O Expander 12
Illuminance 25
Inductive loops 10
Ingress protection rating 25
Input 16
Intended Use 6
IP 25

M

Mifare 25
Mounting 25
Mounting holes 8

N

Network connection 10
Noise emission 26
Notes 30
NOTICE 4

O

Operating temperature range 25
Output 15, 16

P

Packaging materials 24
Parking tickets 25
Pole mounting 8
Power consumption 25
power supply 10
Power supply 15
Protective clothing 4
Protective gloves 4

Q

QR codes 25

R

Relay 15
Relays 10
Resolution 25
RFID reader 25

S

Safety 4
Scanner 21
Schematic diagramme 11
Screen diagonal 25
SD card 25
Signal words 4
Stainless steel stand 21
Switching capacity 25
Symbols 4

T

Threaded rod 9
Touchscreen display 25

W

WARNING 4
Washer 9
Weight 25

