

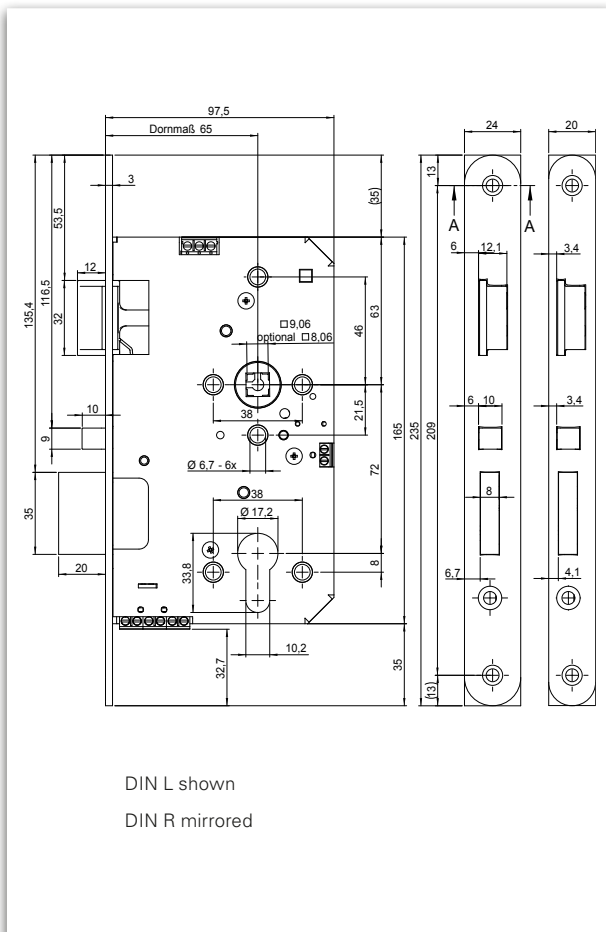



**GBS 90**

Performance criteria		
Closer types	PZ-72 (knob/lever)	■
	RZ-74 (knob/lever)	□
Backset	55	■
	65	■
Panic function	E	■
Forend	Stainless steel	■
Forend width	20 round (rebate)	■
	24 round (flush)	■
Nut	9 mm – one-piece (without separating disc)	■
	9 mm – two-piece (with separating disc)	■
Suitable for fire and smoke control doors	<b>F</b>	■
Tested and approved according to DIN/EN standards	<b>DIN 18 250</b> <b>EN 12 209</b>	
■ Yes - No □ On request		
 Wooden door  Steel door		



Dimensions: GBS 90

### Description

- Simple handle-operated access control lock where you only order what you need. All other functions are available to order as required.
- Automatically locking mortise lock with panic function
- Closed, triple-secured lock case with chip-protection sleeves
- Stainless steel latch bolts and dead bolts
- Dead bolt throw: 1-throw, 20 mm
- Suitable for fire protection doors
- Tested and approved according to **DIN 18250 & EN 12 209**
- The door is locked automatically when the auxiliary latch is pressed in as the door closes
- Optional special equipment available  
Dead bolt monitoring, blocked lever handle, lever handle follower monitoring
- Panic function E is only ensured when the lever handle is only locked on one side.
- With SO 03/04, the lock has no panic function

Individual stamping available on request at additional cost.

## GBS 90 ■ Automatically locking panic lock (AVP)





### DIN 18 250 F

Forend Surface	Backset in mm	Forend Shape	Forend 20 x 235 mm PZ-72 Knob/lever / one-piece nut		Forend 24 x 235 mm PZ-72 Knob/lever / one-piece nut	
			DIN L	DIN R	DIN L	DIN R
ER	55	Round	2090aha02h34308	2090aha02h34408	2090aha02m34308	2090aha02m34408
	65	Round	2090aja02h34308	2090aja02h34408	2090aja02m34308	2090aja02m34408

### DIN 18 250 F

Forend Surface	Backset in mm	Forend Shape	Forend 20 x 235 mm PZ-72 Knob/lever / split nut		Forend 24 x 235 mm PZ-72 Knob/lever / split nut	
			DIN L	DIN R	DIN L	DIN R
ER	55	Round	2090aha08h30300	2090aha08h30400	2090aha08m30300	2090aha08m30400
	65	Round	2090aja08h30300	2090aja08h30400	2090aja08m31308	2090aja08m31408

Special functions	
02 / Micro switch for dead bolt monitoring or switch function	
03 / Blocked lever handle both sides fail safe	
04 / Blocked lever handle both sides fail secure	
05 / Blocked lever handle one side fail safe, hinge side or opposite hinge side	
06 / Blocked lever handle one side fail secure, hinge side or opposite hinge side	
08 / 24 volt model	
10 / Micro switch for lever handle follower monitoring, hinge side or opposite hinge side	
Micro switch	
Gold-plated contacts	max. 15 V, 200 mA
Dead bolt off	Normally open contact
Dead bolt on	Normally open contact
Protection class	IP 40
Connection	
Flexible cable, to be laid on site, max. cable cross-section 1.5 mm <sup>2</sup>	
Locking magnet, split lever handle follower	
Rated voltage	12V / 24V
Operating voltage	10.5V–14V / 21.6V–26.4 V
Power consumption	100 mA at 12 V = 1.2 W
Rel. duty cycle (ED)	100 %
Insulation class	E (T <sub>limit</sub> = 120°C)

Blocked lever handles	
	03 / Blocked lever handle both sides fail safe
	04 / Blocked lever handle both sides fail secure
	05 / Blocked lever handle one side fail safe, hinge side or opposite hinge side
	06 / Blocked lever handle one side fail secure, hinge side or opposite hinge side



### Connection cable accessory

10 m, 4-core, with ferrule

Article number	Model
20996100	10 m, 4-core, with ferrule

# Product information and usage of ECO lock technology

## § 1 Product information and intended usage

1. The locks produced by ECO are intended for closing and locking doors.
2. To ensure that the locks will function properly for their intended usage, the correct combination of approved fittings, closure mechanisms and accessories is absolutely necessary. The locks must be installed in accordance with the installation instructions and taking into account the applicable DIN standards, including maintenance; locks for doors with special functions must be selected according to requirements and also labelled as necessary.

## § 2 Improper use of the products

Improper use of locks (i.e. not using the product as intended) includes the following situations in particular:

- Using the extended bolt to keep the door open in contravention of the intended use;
- Adjusting the hinges or lowering the door, if this results in the required clearance between the door and the frame becoming larger or smaller;
- Installation impedes functionality or the closing elements are retroactively treated;
- Installation or mounting of foreign objects and/or objects intended for this purpose into the lock or the strike plate;
- The handle connection is subjected to loads heavier than standard hand force;
- Opening a double-leaf door via the passive leaf, if this is not an approved use;
- Using closure mechanisms that are not included with the product (that deviate significantly or are improperly calibrated);
- Intervening in or affecting the lock or strike plate in any way that results in a change in its structure, operation or function;
- Simultaneously operating the lever handle and the locking mechanism;
- Closing the door when gripping between the door leaf and the frame.

Sooner or later, these errors will cause damage, and the products will no longer have the characteristics defined by the manufacturer.

## § 3 Product performance

1. Product performance is only partially governed by standards. Many aspects of product performance have been developed based on years of experience and should be considered common knowledge in the construction hardware industry. Correspondingly, the contents of the standards and these empirical values should also be applied to locks that are not expressly regulated.
2. In particular, the standards **DIN 18250, DIN 18251, DIN 18252, DIN 18254, DIN 18255, DIN 18257 and DIN 18273** apply, as does the current standard on fittings, which defines the basic requirements and additional requirements for locks.

3. Locks must be replaced if, despite maintenance and servicing, it can no longer be ensured that they will function properly, and/or they may pose a risk of injury.
4. Furthermore, the products are continuously being improved, and manufacturing is subject to quality assurance. The right to make technical changes is reserved.

## § 4 Product maintenance

1. The user must ensure that the locks function properly.
2. Depending on the material and where they are used, the products will face a certain degree of natural wear and tear. Consequently, depending on the level of use, the locks must undergo maintenance at least once per year; i.e. an appropriate lubricant must be applied at regular intervals. Only cleaning agents that do not contain corrosive ingredients should be used for cleaning the locks.
3. A range of different materials are used in manufacturing. Please note that each of these different materials has different maintenance and servicing requirements.

## § 5 Duty to inform and instruct

1. The following documents are available to provide information and instruction:
  - Catalogues and brochures;
  - Bid documents;
  - Tender documents;
  - Installation and operating instructions;
  - Procurement information;
  - DIN standards.
2. In order to ensure that the locks function properly:
  - Architects, planners and any other people involved in the process are required to request all the necessary product information from us and to comply with said information,
  - Specialised retailers are required to observe the product information and notes in the price lists and catalogues and, in particular, to request all required instructions from us and to pass them on to the processors,
  - The processors are required to obtain all product information and to comply with it, and, in particular, to request the operating and maintenance instructions from us and pass them on to the customers and users.

Overall, all parties involved must ensure that the locks are properly assembled and installed and that each end user receives proper instructions and explanations.

# General information

## ECO Schulte recommends

For lever handle sets without a return spring, we recommend using locks that comply with DIN 18251 - class 3 or higher

In order to minimise the clearance between the lever handle set and the lock, we recommend locks that comply with DIN 18251 with a clamping nut.

When ECO handles are properly installed and used, the paint should withstand daily use. Excessive contact with hard or sharp objects (such as key rings, rings etc.) can scratch the surface. This does not impair functionality, however.

Our Compendium presents a compilation of all the products in our range. These are each subject to different supply classes. Special models are often configured to specific customer wishes and sometimes require longer lead-times and minimum order quantities. Your contact will be happy to advise you.

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## ■ SYSTEM TECHNOLOGY FOR THE DOOR

