**GfS** Safety on doors





Installation
Operation
Testing

# The instructions must be followed in order to permanently assure the correct functioning of the emergency exit.

- 1. After the emergency exit control system has been installed the proper functioning of the system has to be determined by a final check. The check may just be performed by external specialists. The local inspection regulations have to be taken into consideration.
- 1.2. After a successful final check an approval seal has to be put on the GfS Door Terminal.
- 1.3. After the successful final check a certificate is issued, hwich has to be signed and stored by the operator.

#### 2. Final check

The final check must be initiated by the operator.

#### 2.1. Periodic verification/maintenance

The periodic verification/maintenance (see checklist for commissioning and maintenance) has to be initiated by the operator.

#### 2.2. The emergency exit control system

must be constantly kept operational by the operator. At least once per month the functioning of the system has to be checked.

#### 2.3. At least once a year the operator is obliged

to check the proper and trouble-free interaction of all components and to maintain them (unless there are no shorter periods specified by local authorities.

#### 2.4. The scope, result and date of periodic inspection

have to be recorded. The records must be stored by the local operator.

Part No. 790 000 GfS-Door Terminal

#### INDROTUCTION/SAFETY INSTRUCTION

The GfS Door Terminal is a compact device to steer up to 2 holding magnets which are mounted on emergency exit doors. It includes emergency exit switch, flash light, buzzer and key switch. The housing is made out of solid stainless steel.

In order to make full use of all GfS Door Terminal features and to assure the safety of the operator it is important to act according to the following instructions.

## Before connecting and operating the device please read the operating manual carefully.

- The eletric installation must be executed by an authorized installer
- Before opening the device the external power supply has to be switched-off
- In case of system failure please disconect the device and ask an authorized installer to repair it
- Please use the device just according to the following instruction

#### This assembly instruction should be handed on to the operator

#### **INSTALLATION**

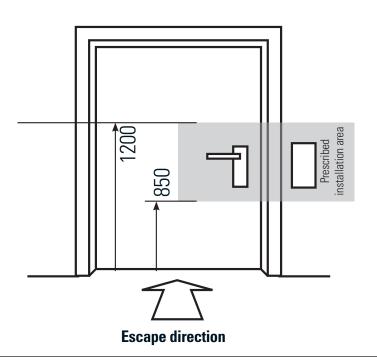
#### IMPORTANT:

Connect the GfS Door Terminal completely before applying voltage.

- Mount the GfS Door Terminal on the wall with the enclosed screws (see hole pattern). You can find the different measures on page 4)
- Connect all required cables
- Tighten the screws of the emergency exit button insertion (positioned horizontally)
- Tighten the screws of the cover of the LED-field (positioned vertically)
- Now, apply the voltage
- · Carry out function test

#### **ATTENTION**

GfS recommends to checks the functions of the GfS Door Terminal every 6 months.



#### **TECHNICAL DATA**

**Power supply** 12 V–24 V/DC

**Consumption** State of activation 365 mA

(1 holding magnet) State of alarm 150 mA

**Degree of protection** IP 20

**Output** 1 incident message relay

 Max. contact load DC
 30V/0,5A

 Operating temperature
 - 20° C to +60° C

 Dimensions
 90 x 240 x 80 mm

 Weight
 ca. 1,6 kg

• 2x 32 LED (red/green) for displaying the actual status

• integrated buzzer with 100dB/1m

• integrated flash light

• emergency exit switch acc. to EN60947-5-1

integrated key switch

• 2 mm thick, robust stainless steel housing

• integrated control unit

• reusable cover for emergency exit switch made out of Macrolon

#### Input

- 12-24V/DC supply
- 1x single remote opening
- 1x permanent remote opening
- 2x holding magnet signals
- 1x door-too-long-open alarm
- 1x intrusion-alarm (or bridge), clamps briged = door closed
- 2x sabotage alarm
- 2x predefined brightnesses of LED
- 1x fire alarm control system (with bridge normal operation)
- 1x emergency exit switch with internal fail safe contacts
- 1x reserve input

#### Output

- 2x holding magnet (electric escape route strikes)
- 1x RS-485 interface (bi-directional, half duplex) for integration into building control systems
- 1x external sirène 24V, 0,5A OC
- 1x external flash light 24V, 0,5A OC
- 1x incident message relay (collective message) 30 V, 0,5 A

#### **Conformity**

This product complies with the essential requirements of the R&TTE guideline 1999/5/EG. The certificate of conformity you may request from your supplier.

#### **Disposal**

Dispose an obselet GfS Door Terminal at a a colleting point for electronic waste or at your supplier. Dispose the packaging material at a paper collecting point for paper resp. plastic. You may not dispose an obsolte device the general garbage.



#### Warrenty

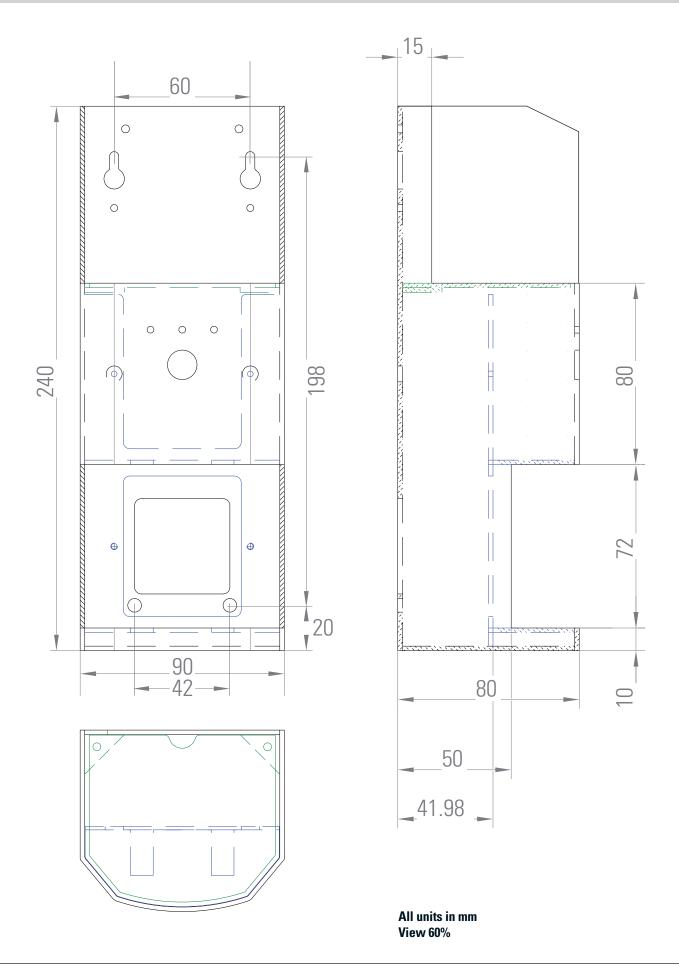
Within the legal warrenty time we intend to repair all defect devices, whether the defect is caused by the material or assembly, or replace them. The warenty expires after a third-party repair.

#### **Service**

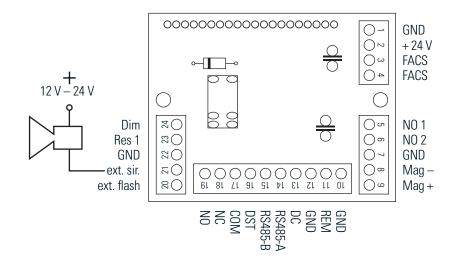
In case of a system failure or a defect GfS Door Terminal please contact the following address:

Part No. 790 000 GfS-Door Terminal

### **DIMENSIONS**



#### **TERMINAL DIAGRAM**



Pos	Abb.	Function	Signal
1	GND	Operating voltage minus	Ground
2	+24V	Operating voltage plus	+24 V
3	FACS	Fire alarm control system	Floating contact or bridge to 4
4	FACS	Fire alarm control system	Floating contact or bridge to 3
5	N01	Response magnet 1	Ground is switched, holding magnet 1 is energized (Hall Relay NO)
6	N02	Response magnet 2	Ground is switched, holding magnet 2 is energized (Hall Relay NO).  In case that there is just 1 magnet, 6 and 7 must be bridged!
7	GND	Common GND Magnets	GND-Signal (Hall Relais COM)
8	Magnet-	Magnet- Coil 1 and 2	Negative connection for magnets
9	Magnet +	Magnet+ Coil 1 and 2	Positive connection for magnets
10	GND	Reference for remote opening	Signal ground
11	REM	Remote opening input Switch-on	GND resp. bridge 10 and 11 Opening command
12	GND	Reference contact for door contact	Signal GND
13	DC	Contact	Switch-on GND resp. bridge 12 and 13. Door closed
14	RS-485A	Communication	Data signals
15	RS-485B	Communication	Data signals
16	DST	Communication multi function port	Acc. to the required functions as input or output, also usable for communication purposes with 1 wire
17	COM	Incident message relay COM	Floating contact 30 V/0,5 A max
18	NC	Incident message relay NC	Floating contact 30 V/0,5 A max
19	NO NO	Incident message relay	Floating contact 30 V/0,5 A max
20	ext. flash	External flash light	Open collector-output, 30V/ 0,5A max
21	ext. sir.	External siren	Open collector-output, 30V/ 0,5A max
22	GND	Reference for reserve and dim input	Signal GND
23	Res1	Reserve input	Free function
24	Dim	Dim input	Switch-on GND resp. bridge 24 with 22. Dim command

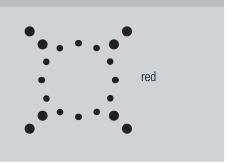
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#### **FUNCTIONS**

#### Alarm secured

#### LED ring with cross shines red

Incident message relay is activated, emergency exit switch is illuminated, magnet is activated, door contact closed (DC connected) as well as magnet 1 and 2.



#### **Opening time delay**

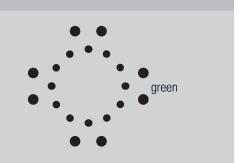
At the end of the opening time delay (5 sec. preset, adjustable)

#### the green LEDs blink slowly twice

and the GfS Door Terminal is activated again.

Precondition: Holding magnet and door contact are closed.

When the door is opened during the opening time delay and no opening contact active, the status changes directly into "Waiting for door too be closed"

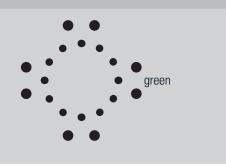


#### **Opening command 1**

Turn key switch to the right.

#### LED ring with corners blink green.

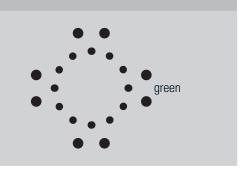
Magnet is deactivated, the door may be opened once without causing an alarm.



#### **Opening command 2**

Input "Remote" activated.

Opening command remains active as long as the GfS Door Terminal receives the signal plus opening time delay.



#### **Permanent opening**

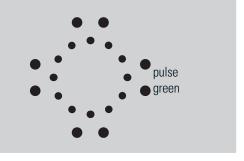
Permanent opening is active as long as Input "Remote" is activated.

Permanent opening with key switch: Turn key switch clockwise for at least 5 sec., till LEDs expire. Remove key.

#### LEDs and emergency exit switch illumination are pulsing.

Door may be opened as long and as often as desired.

Magnets are permanently deactivated.



#### **FUNCTIONS**

#### Waiting for door to be closed

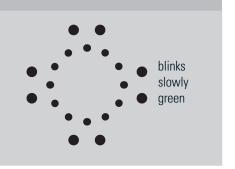
#### The LEDs blink slowly green

at the end of the opening time.

In case that the holding magnet and door contact are not closed the

#### LEDs blink green for another 15 sec

(till conditions for activation are met).



#### Door-too-long-open

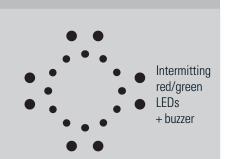
If the door stays open for more than 15 sec. an alarm "Door-too-long-open" is triggered.

#### Every 3 secs the green LEDs change for 200 ms into red,

while the internal and external buzzers are activated.

#### **Deactivation of alarm**

Close door (door reed contact, counter plate) or give again an opening command (opening command 1 and 2 possible)



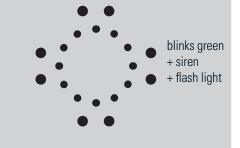
#### **Emergency exit switch alarm**

#### Push emergency exit switch

Flash-light, buzzer (internal and external) are activated, deactivation of incident message relay, magnets are seperated and deactivated by the processor.

#### LEDs blink quickly green (as after opening command).

Reset of alarm just possible with key switch. Unlatch emergency exit switch.



#### Intrusion, sabotage

In case that one of the two feedback loops of the holding magnets or door contacts are interrupted, an intrusion alarm is triggered.

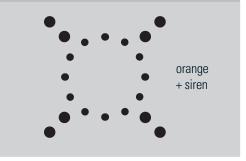
#### LEDs change from red to orange.

The incident message relay is deactivated, the external siren is activated.

The magnet stays active!

Reset just possible with key switch (turn right).

In case that the PCB is removed (sabotage on the GfS Door Terminal) he same alarm is triggered.

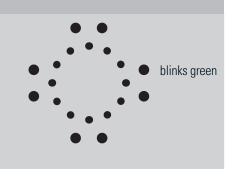


#### Fire alarm

In case of a central fire alarm clamp 3 and 4 are seperated, the failure relay is deactivated. Holding magnets are seperated and deactivated by the processor.

## LEDs blink quickly green (like open). The emergency exit switch illumination blinks in push-pull.

The deactivation of the alarm only with key switch (turn right) possible.

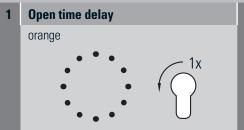


#### **PROGRAMMING**

#### **Programming**

- **1** Turn key switch to the right (create status open)
- 2 Hold key switch left at least for 5 sec. till orange ring shines
- **3** Turn key switch to the left, release
- **4** Turn briefly key switch to the left. Repeat this in order to enter other programming modes
- **5** Turn key switch to the right in order to confirm the correct programming mode
- 6 Turn key switch to the right in order to change the status/ value
- 7 Turn key switch to the left in order to store the value and finish programming mode

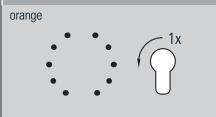
#### **Programming mode**



#### Silent alarm



#### Accoustic alarm switch-off



#### **Change opening time**

Execute programming steps 1-3

#### Orange LED ring shines. Programming mode: opening time.

Start programming — execute step 5 (turn to the right) (Confirm programming mode by turning key to the left)

#### Orange LED ring changes to red

1 green LED means 5 sec. opening time. By turning the key switch to the right the opening time increases each time by additional 3 sec.

- 1 turns to the right: 8 sec
- 2 turns to the right: 11 sec
- 8 turns to the right: 29 sec

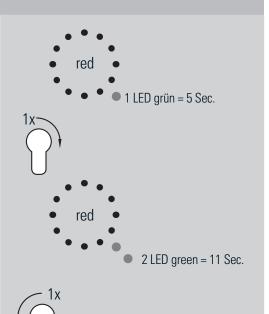
#### Each turn leads to 1 more LED to shine green (max. 8).

9 turns to the right: 5 sec

When the required opening time delay is set, turn key switch briefly to the left (step 7- end programming mode)

#### The LEDs blink quickly 4 times.

The new values are set. In case of a power break down, the opening time remains stored.



store/ leave

#### **PROGRAMMIEREN**

#### **Silent alarm**

Execute programming steps 1-3

Execute step 4 once. (turn to the left)

#### The LED cross shines orange.

Execute programming step 5 (turn to the right).

#### Orange cross changes into green

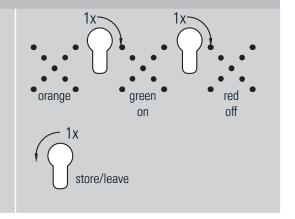
(sirène will be triggered in case of an alarm)

Execute programming step 6 once in order to change to silent alarm (turn to the right).

#### The LED cross shines red.

With any further execution of programming step 6 the setting changes from green/accustic alarm to red/silent alarm.

Execute programming step 7 in order to end the programming.



#### **Automatic accoustic alarm switch-off**

Execute programming step 1-3.

Execute step 4 twice (turn to the right).

#### Two orange half circles shine.

Execute step 5 (turn to the right).

#### Two half circles shine green.

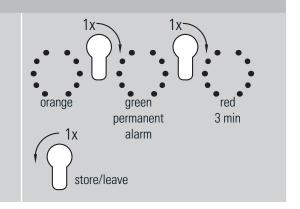
Execute step 6 once (turn to the right).

#### LED half circles shine red.

Siren is automatically switched-off after 3 min.

With any further execution of programming step 6 the setting changes from green/no automatic alarm switch-off to red/automatic alarm switch-off.

Execute programming step 7 in order to end the programming.

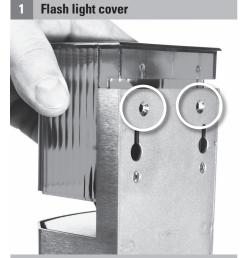


#### Dim

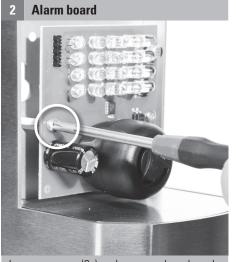
Activate the port dim

the brightness of all LEDs and the emergency exit switch back light are reduced to a minimum

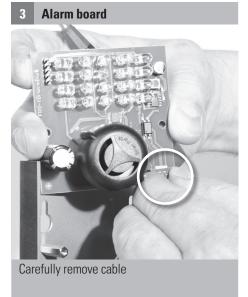
#### **CHANGING THE EUROPEAN PROFILE CYLINDER**



Loosen screws (2x) and remove the cover of the flash light upwards



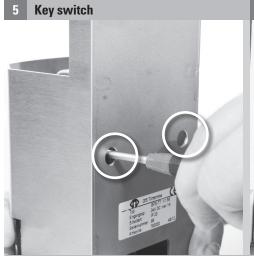
Loosen screws (2x) and remove alarm board



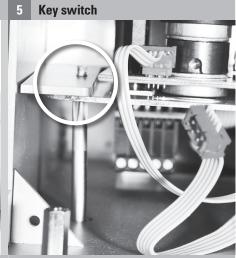
Internal cover sheet



Remove internal cover (2 screws)

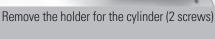


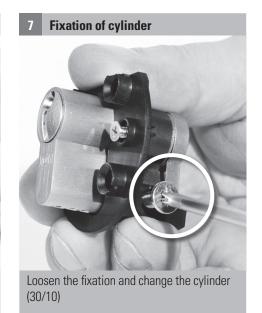
Loosen key switch through the backside openings



Loosen key switch and remove it (2 screws)







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#### **ZERTIFIKAT**

## Technischer Überwachungsverein Thüringen e.V.

Prüfstelle für Bauprodukte

Hauptverwaltung Erfurt Melchendorfer Straße 64 99 096 Erfurt

Tel. 0361 / 4 28 30 Fax 0361 / 373 55 62 99 310 Arnstadt

Service-Center Mittelthüringen Tel. 03628 / 59 83 70 Ichtershäuser Str.32

Fax 03628 / 59 83 71

Service-Center Südthüringen

Tel. 03682 / 45 2-635 Industriestraße 13 98 544 Zella-Mehlis Fax 03682 / 45 26 57

## Baumusterprüfbescheinigung P-4056/13

Antragsteller:

GfS Gesellschaft für Sicherheitstechnik mbH

Tempowerkring 15 21079 Hamburg

Fertigungsstätte:

GfS Gesellschaft für Sicherheitstechnik mbH

Tempowerkring 15 21079 Hamburg

Baumuster:

Eintürenzentrale zur elektrischen Verriegelung von Türen in Rettungswegen

Typ:

GfS-Fluchttürterminal

Zulässige

Ausführung:

Fluchtwegterminal "GfS-Türterminal" bestehend aus:

- Fluchtwegterminal mit Steuerung und Nottaste,
- externes Netzteil MeanWell MDR-20-X
- Haftmagnet FWS-HM (Modell 10020),
- Fluchttüröffner effeff 331U,
- Fluchttüröffner effeff 332

Vereinbarte

Bedingungen:

Prüfgrundlagen:

- 1. Richtlinie über elektrische Verriegelungssysteme von Türen in Rettungswegen (EltVTR) Mitteilung des DIBt Heft Dez/1998
- 2. DIN EN 60950-1: 2011-01 Sicherheit von Einrichtungen der Informationstechnik

sowie in vorgenannten Prüfgrundlagen aufgeführte Mitgeltende Vorschriften. Normen und Richtlinien.

- 1. Der Einbau des elektrischen Verriegelungssystems "GfS-Türterminal" an Türen in Rettungswegen darf nur durch eine geschulte Fachfirma erfolgen.
- 2. Das Türterminal ist in unmittelbarer Türnähe in einer Höhe zwischen 850 -1200 mm zu montieren und mit dem Hinweisschild nach Ziff.3.3.6 der Prüfgrundlage 1 (EltVTR) zu kennzeichnen.
- 3. Montage und Installation des elektrischen Verriegelungssystems für Türen in Rettungswegen sind nach den Zeichnungsunterlagen vorzunehmen.
- 4. Für die erste Inbetriebnahme der Türen mit elektrischen Verriegelungen in Rettungswegen sind nachstehend aufgeführte, begleitende Unterlagen dem Betreiber zu übergeben:
  - eine Ablichtung der Baumusterprüfbescheinigung, Prüfzeichen P-4056/13,
  - Installations- und Nutzungsanleitung,
  - Prüfbuch mit Angaben zur Prüfung.

Part No. 790 000 GfS-Door Terminal

#### **ZERTIFIKAT**

Prüfstelle für Bauprodukte Baumusterprüfbescheinigung P-4056/13 Seite 2 von 2



Hinweise:

- Diese Bescheinigung berechtigt den Hersteller zur Kennzeichnung des elektrischen Verriegelungssystems vom Typ "GfS-Türterminal" mit dem Ü-Zeichen nach Bauregelliste A Teil 1 lfd. Nr. 6.19 unter Angabe von Typ, Baujahr und Seriennummer.
- 2. Das elektrische Verriegelungssystem bietet die Möglichkeit des Anschlusses an eine Brandmeldezentrale.
- Die Baumusterprüfung umfasste keine Prüfung der elektromagnetischen Verträglichkeit gem. EG-Richtlinie 204/108/EG.
- 4. Vor der ersten Inbetriebnahme des elektrischen Verriegelungssystems ist eine Prüfung durch einen Sachkundigen mit schriftlichem Nachweis des Prüfergebnisses erforderlich. Für die wiederkehrenden Prüfungen und Wartungsfristen nach Herstellerangaben gilt die jeweils am Einbauort gültige Landesbauordnung.
- Weitergehende Forderungen der Bauaufsichtsbehörde entsprechend der für den Einbauort geltenden Landesbauordnung und die Kennzeichnung der Rettungswege bleiben von dieser Bescheinigung unberührt.
- Die Baumusterprüfbescheinigung gilt bis zum 31.12.2017. Bei wesentlichen Änderungen der technischen Regel kann eine erneute Prüfung notwendig werden.

Zella-Mehlis, den 12.12.2013

Technischer Überwachungsverein Thüringen e.V.

Prüfstelle für Bauprodukte

Dipl.-Ing. (FH) M. Reichelt Leiter der Prüfstelle Bavaufsichtlich

\* anerkannte
Prüfstołle

**THU 08** 

Thuringen

CHEC	CKLIST				YES	NO			
	Installation complete								
RAL	Execution of installation								
GENERAL	Connections/wiring								
	Completeness of documentation								
Ę	GfS Door Terminal								
PONE	Power unit								
COM	Holding magnet								
INSTALLED COMPONENTE	Fail-unlocked strike								
INS	External switch								
	Check the correct locking of the door								
ECK	Operate external switch								
AL CH	Check the ability to switch the control LEDs (red/green) on the holding magnets								
FUNCTIONAL CHECK	Checkautomatic and manual reset								
FUN	Check the ease of opening the door, door may neither pinch nor drag								
	Check all mechanical components and clean them, check fix	ration							
	Meassure input/output voltage on power supply	V	AC outp.	V DC					
NIR/	Check sabotage alarm								
ONTROL UNIR/ CONNECTION	Voltage within holding magnet: Input	V DC/output							
CONT	Meassure current of holding magnet	nA							
REVISION C ELECTRIC	Check function of external switch (key switch etc.), fire alarm	m system							
REV	Check function of emergency exit switch (accoustic and visu	ual alarm)							
	Check the forwarding of alarm signals to external devices								
Comm	ents								

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Year	1	2	3	4	5	6	7	8	9	10	11	12	monthly verification by operator		
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													Anual revision sticker ha	nded out	
Company (stamp)							Signatu	re externa	ıl specialis	t			YES	NO	
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Company (stamp)							Signature external specialist YES					YES	NO		
Year	1	2	3	4	5	6	7	8	9	10	11	12	monthly verification by operator		
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Company (stamp)	Company (stamp)						Signature external specialist				YES	NO			
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**GfS-Door Terminal** 

### **SPARE PARTS**

Instalation frame for in-wall mounting		Part No.
	for GfS Door Terminal	799 011

Replacement cover for flash-light		Part No.
	for the flash-light of the GfS Door Terminal, red	799 000

Replacement cover for emergency exit switch		Part No.
	for emergency exit switch of the GfS Door Terminal made out of unbrakeable Macrolon, transparent	799 001

European Cylinder		Part No.
	for insertion into GfS Door Terminal, incl. 2 keys	901 375
00000	2 replacement keys	901 376

Pictos		Part No.							
for marking the use of the emergency exit switch									
NOTAUSGANG  Nur bei Gefahr Nottaster betätigen	Regular print quality, adhesive	921 390							

Pictos		Part No.		
for marking the use of the emergency exit switch				
Nur bei Gefahr Nottaster betätigen	fluorescent, adhesive	921 490		

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Händlerstempel		

