




**EMD / TSA 160 NT /**  
**Powerturn**  
Montagewinkel  
Mounting bracket

DE Montageanleitung  
EN Installation instructions

146122-02

## Symbole und Darstellungsmittel

Um die korrekte Bedienung zu verdeutlichen, sind wichtige Informationen und technische Hinweise besonders herausgestellt.

Symbol	Bedeutung
	bedeutet „Wichtiger Hinweis“
	bedeutet „Zusätzliche Information“
	<p><b>Symbol für eine Handlung: Hier müssen Sie etwas tun.</b></p> <p>▶ Halten Sie bei mehreren Handlungsschritten die Reihenfolge ein.</p>

### 1 Funktion

Der Montagewinkel wird zur Befestigung von Modulen der GEZE-Sicherheitstechnik im Anbausatz bzw. Zwischenhaubenbausatz des EMD, des TSA160 NT bzw. des Powerturn verwendet.

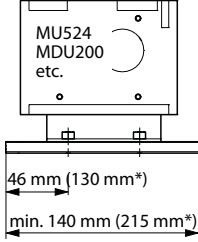
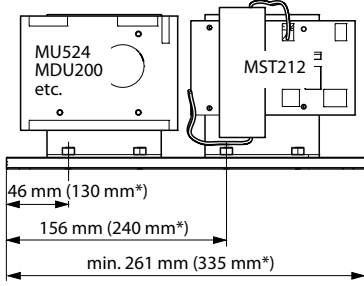
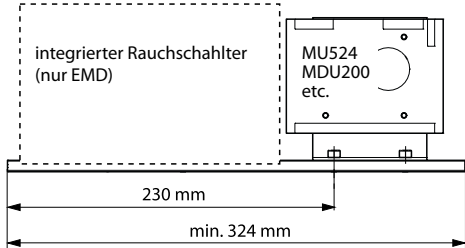
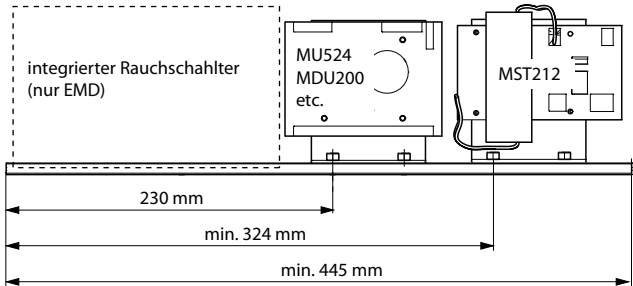
Mit dem Montagewinkel werden folgende Module befestigt:

- Master Unit (GCMU 524)
- Master Door Unit (GCMDU 200)
- Door Unit (GCDU 200)
- Single Door Unit (GCDU 100)
- Klemmbox KL220
- Motorschlosssteuerung MST210
- Motorschlosssteuerung MST212\*

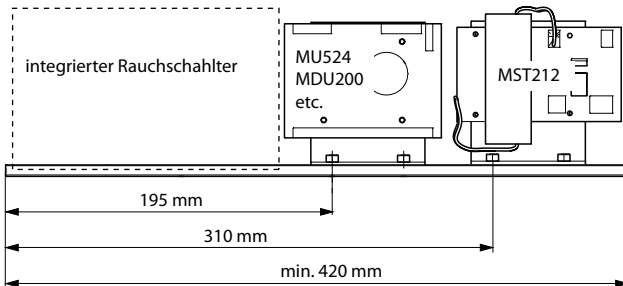
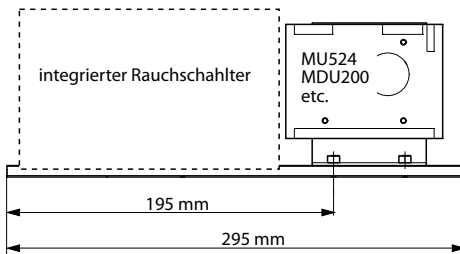
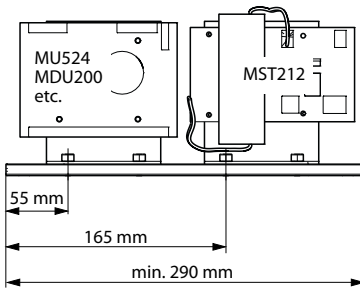
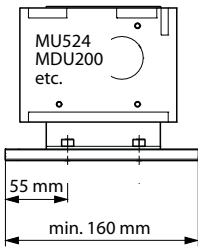
\* nur in Verbindung mit MST 210 (zusätzlicher Montagewinkel erforderlich)

## 2 Mögliche Kombinationen und Bohrungsabstände

### 2.1 EMD und TSA 160 NT

	EMD	TSA 160 NT
	ja	ja
<p>( ) = TSA 160 NT                      * = beim Nachrüsten bestehender TSA160NT-Anlagen sind diese Abstände um 50 mm größer</p>		
	ja	ja
<p>( ) = TSA 160 NT                      * = beim Nachrüsten bestehender TSA160NT-Anlagen sind diese Abstände um 50 mm größer</p>		
	ja	nein
	ja	nein

## 2.2 Powerturn



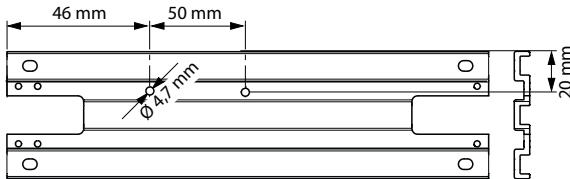
### 3 Montage

#### 3.1 Bohrmaße EMD und TSA 160 NT

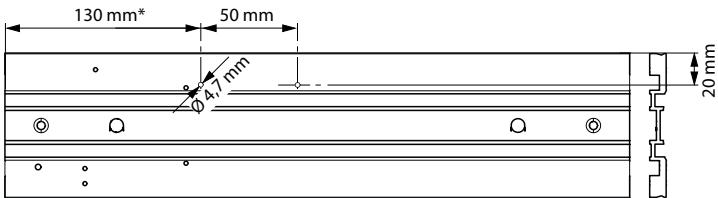


Weitere Maße siehe Kapitel 2.

##### Grundplatte EMD

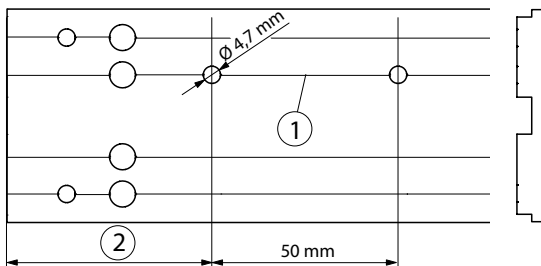


##### Grundplatte TSA 160 NT



\*) beim Nachrüsten vorhandener Anlagen ist dieses Maß um 50 mm größer

#### 3.2 Bohrmaße Powerturn



- 1 Rille
- 2 siehe Kapitel 2.2

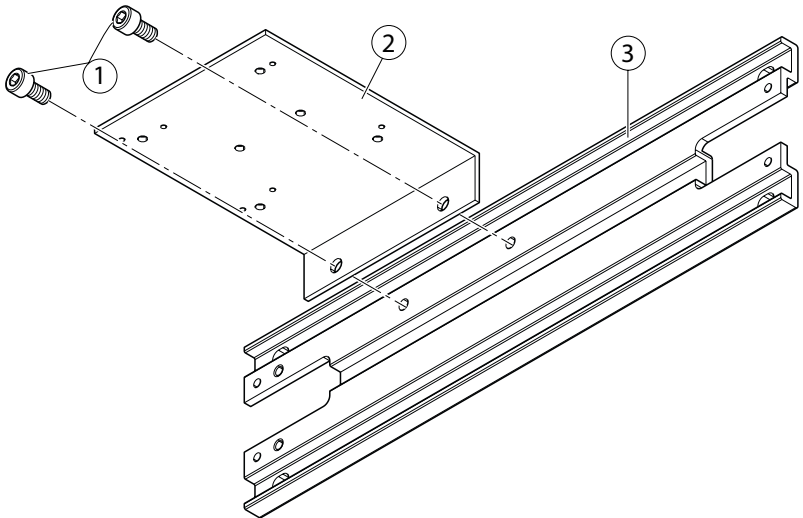
### 3.3 Module montieren

#### 3.3.1 EMD und TSA 160 NT

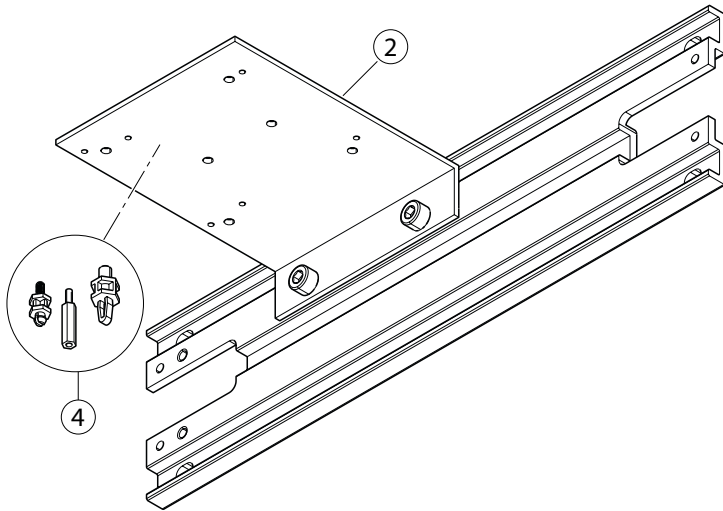


- ▶ Vor dem Bohren sicherstellen, dass die Grundplatte präzise ausgerichtet ist.

- ▶ 2 Bohrungen  $\varnothing 4$  mm in Grundplatte Anbausatz bzw. Grundplatte Zwischenhaubenbausatz bohren (Bohrmaße siehe Kapitel 3.1).
- ▶ Grundplatte (3) montieren.
- ▶ Montagewinkel (2) mit 2 Schrauben (1) an Grundplatte (3) schrauben.



- ▶ Abstandshalter (4) je nach Modul (siehe Kapitel 4) in den Montagewinkel (2) drehen.

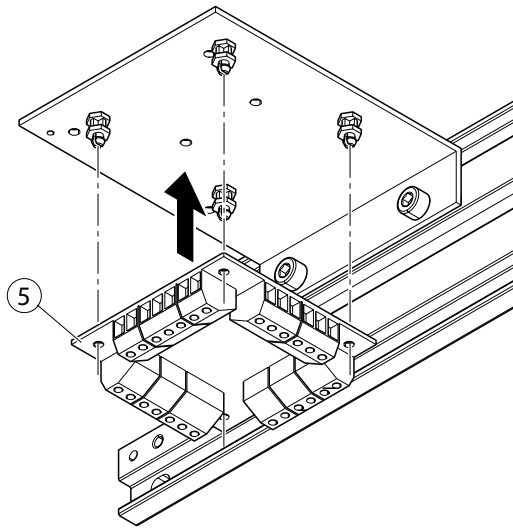


### Platinenbohrung aufbohren

Bei folgenden Modulen müssen die Platinenbohrungen auf  $\varnothing 3$  mm aufgebohrt werden:

- Master Unit GCMU 524
- Single Door Unit GCDU 100

- ▶ Modul (5) auf die Abstandshalter klipsen.



Beispiel in Abb.: Single Door Unit GCDU 100

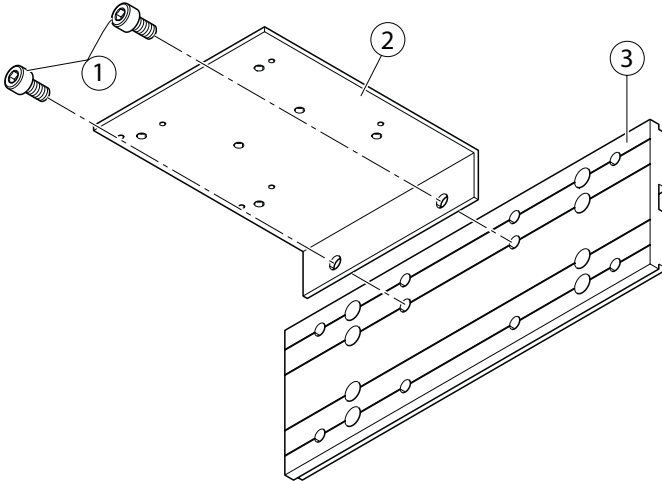


- ▶ Bei 2-flügligen Anlagen mit integrierter Schließfolge sicherstellen, dass die Seile der IS-Mechanik die Module nicht beschädigen.



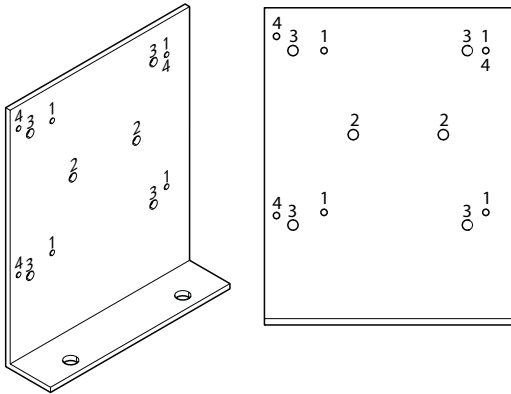
## 3.3.2 Powerturn



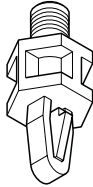
- ▶ 2 Bohrungen  $\varnothing 4,7$  mm in Grundplatte Anbausatz bzw. Grundplatte Zwischenhaubenbausatz bohren (Bohrmaße siehe Kapitel 3.2).
- ▶ Grundplatte (3) montieren.
- ▶ Montagewinkel (2) mit 2 Schrauben M5  $\times$  10 (1) an Grundplatte (3) schrauben.



- ▶ Platine montieren siehe Kapitel 3.3.1.

## 4 Positionen der Abstandshalter






Bohrung-Nr.	Modul	Typ Abstandshalter
1	Single Door Unit (GCDU 100)	Richco TCBNS-M2.5-6
1	Master Unit (GCMU 524)	
4	Motorschlosssteuerung MST212 (auf zusätzlichem Montagewinkel)	
1	Door Unit (GCDU 200)	Richco HTSN-M2.5-8
1	Master Door Unit (GCMDU 200)	
2	Klemmbox KL220	
3	Motorschlosssteuerung MST210	



## Symbols and illustrations

In order to illustrate proper operation, important information and technical information is highlighted.

Symbol	Meaning
	means "Important information"
	means "Additional Information"
	<p><b>Symbol for an action: There is something you must do here.</b></p> <p>▶ Observe the order of multiple operational steps.</p>

### 1 Function

The mounting bracket is used to fasten GEZE safety technology modules in the extension kit or the intermediate cover kit of the EMD, the TSA160 NT or the Powerturn.

The following modules are fastened by means of the mounting bracket:

- Master Unit (GCMU 524)
- Master Door Unit (GCMDU 200)
- Door Unit (GCDU 200)
- Single Door Unit (GCDU 100)
- Terminal box KL220
- Motor lock control MST210
- Motor lock control MST212\*

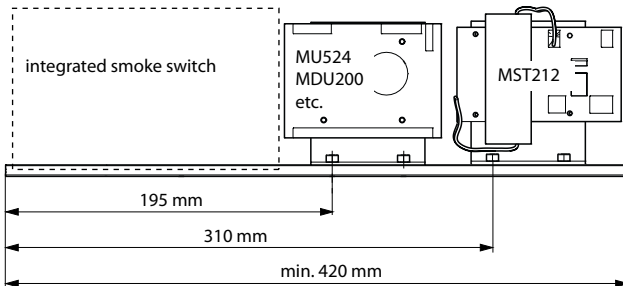
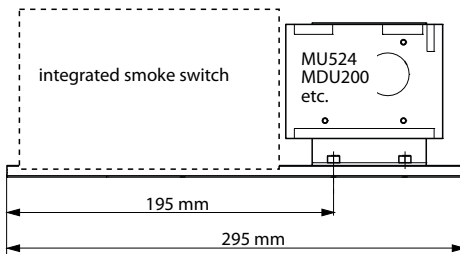
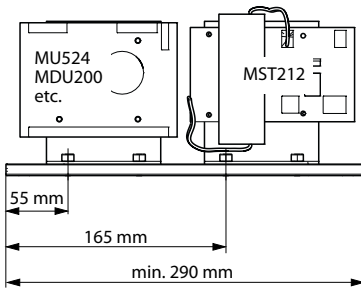
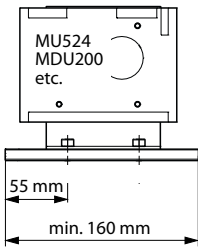
\* only in combination with MST 210 (additional mounting bracket required)

## 2 Possible combinations and hole distances

### 2.1 EMD and TSA 160 NT

	EMD	TSA 160 NT
<p>MU524 MDU200 etc.</p> <p>46 mm (130 mm*) min. 140 mm (215 mm*)</p>	yes	yes
<p>( ) = TSA 160 NT * = these distances are larger by 50 mm when existing TSA160NT systems are retrofitted</p>		
<p>MU524 MDU200 etc.</p> <p>MST212</p> <p>46 mm (130 mm*) 156 mm (240 mm*) min. 261 mm (335 mm*)</p>	yes	yes
<p>( ) = TSA 160 NT * = these distances are larger by 50 mm when existing TSA160NT systems are retrofitted</p>		
<p>integrated smoke switch (EMD only)</p> <p>MU524 MDU200 etc.</p> <p>230 mm min. 324 mm</p>	yes	no
<p>integrated smoke switch (EMD only)</p> <p>MU524 MDU200 etc.</p> <p>MST212</p> <p>230 mm min. 324 mm min. 445 mm</p>	yes	no

## 2.2 Powerturn

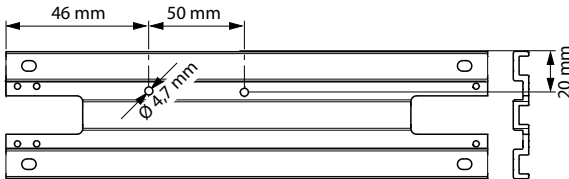


### 3 Installation

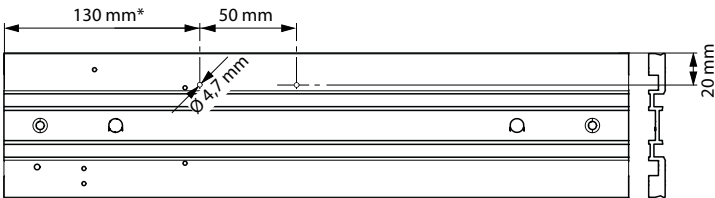
#### 3.1 Hole dimensions EMD and TSA 160 NT

**i** For further dimensions see Chapter 2.

##### Base plate EMD

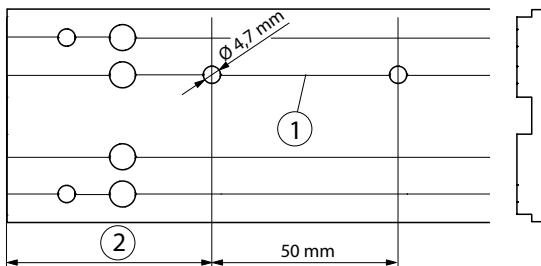


##### Base plate TSA 160 NT



\*) this dimension is larger by 50 mm when existing systems are retrofitted

#### 3.2 Hole dimensions Powerturn



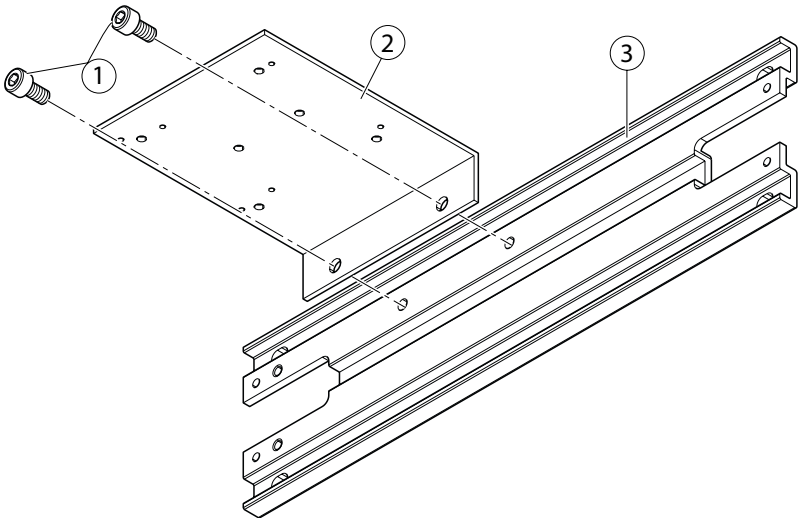
- 1 Groove
- 2 see Chapter 2.2

### 3.3 Installing the modules

#### 3.3.3 EMD and TSA 160 NT

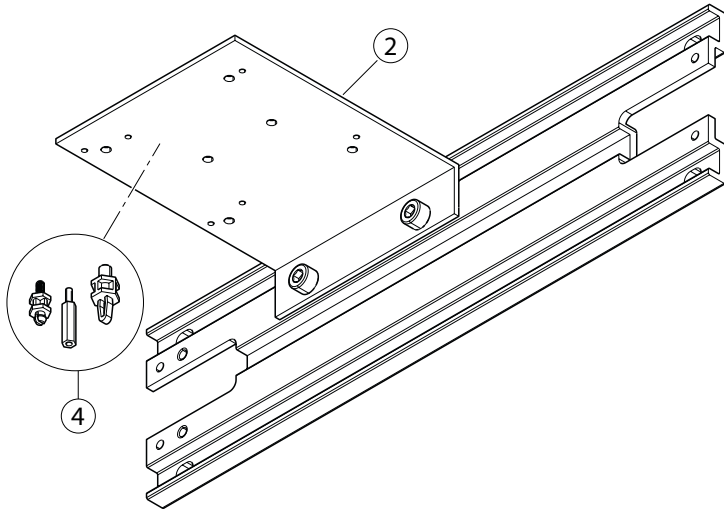
**!** ▶ Before drilling ensure that the base plate is aligned precisely.

- ▶ Drill 2 holes  $\varnothing$  4 mm in the base plate extension kit or base plate intermediate cover kit (for drilling dimensions see Chapter 3.1).
- ▶ Install the base plate (3).
- ▶ Screw the mounting bracket (2) to the base plate (3) using 2 screws (1).





- ▶ Depending on the module (see Chapter 4), screw spacers (4) into the mounting panel.

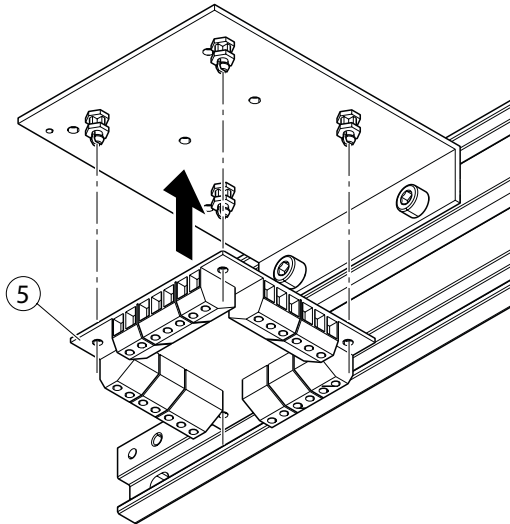


**Drilling out the printed circuit board hole**

The printed circuit board holes have to be drilled out to  $\varnothing$  3 mm with the following modules:

- Master Unit GCMU 524
- Single Door Unit GCDU 100

- ▶ Clip the module (5) onto the spacers.



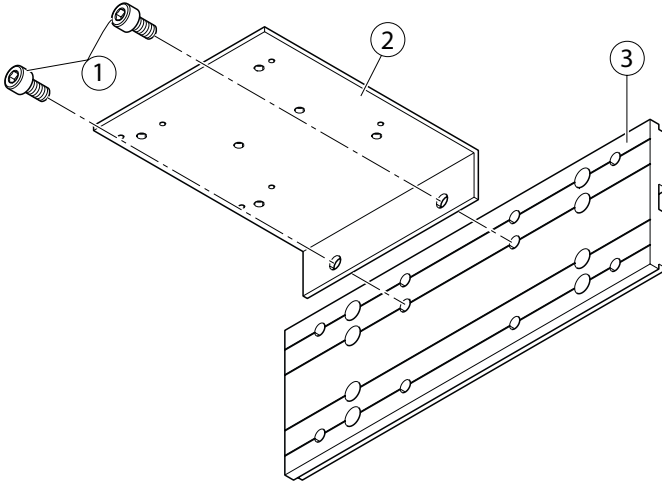
Example shown: Single Door Unit GCDU 100



- ▶ In the case of 2-leaf systems with integrated closing sequence ensure that the ropes of the integrated closing mechanism do not damage the modules.

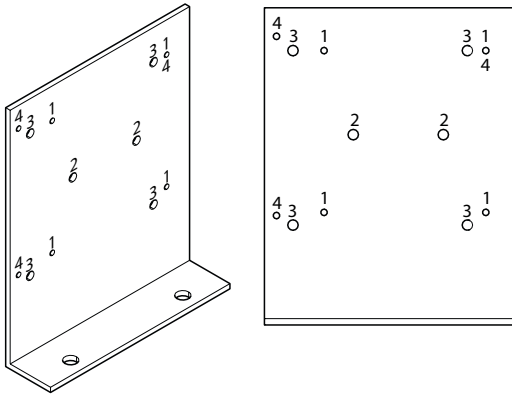
## 3.3.4 Powerturn



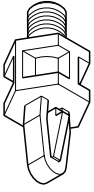
- ▶ Drill 2 holes  $\varnothing 4.7$  mm in the base plate extension kit or base plate intermediate cover kit (for drilling dimensions see Chapter 3.2).
- ▶ Install the base plate (3).
- ▶ Screw the mounting bracket (2) to the base plate (3) using 2 x M5 x 10 screws (1).



- ▶ Install the printed circuit board, see Chapter 3.3.1.

### 4 Positions of the spacers



Hole no.	Module	Spacer type
1	Single Door Unit (GCDU 100)	Richco TCBNS-M2.5-6
1	Master Unit (GCMU 524)	
4	Motor lock control unit MST212 (on additional mounting bracket)	
1	Door Unit (GCDU 200)	Richco HTSN-M2.5-8
1	Master Door Unit (GCMDU 200)	
2	Terminal box KL220	Richco MSCBS-M4-6
3	Motor lock control MST210	







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