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ELECTRONIC COMPONENTS

## Product manual

# Metallic Panel

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## 1 Description

Due to the combined construction of a tactile membrane keypad with metallic surface, the keypad is protected against vandalism and also shows an excellent tactile feedback. The stainless steel surface is laser lettered. In addition to the standard lettering, customized lettering and symbols are available on request.

## 2 Technical Data and Dimensional Drawings

### 2.1 Technical Data

<b><u>Electrical Data</u></b>		
Contacts Material		Silver + Carbon
Switching Voltage max.	(V AC/DC)	30/42
Switching Voltage min.	(mV AC/DC)	20
Switching Current max.	(mA)	50
Switching Current min.	(mA)	1
Lifetime electrical	(mill.)	> 1
Rated Breaking Capacity	(W)	0,6
Trace Resistance per cm (Width 0,7 mm, Thickness 10 µm)	(Ω)	max. 1
Dielectric Strength	(V)	500
Insulation Resistance (DIN42115)	(MΩ)	> 100
Duration of Bounce (DIN 42115)	(ms)	typ. < 5

<b><u>Mechanical Data</u></b>		
Actuating Force	(N)	3
Actuating Travel	(mm)	0.45
IP-Protection Class Front Side/Contact Area	(IP)	40/65
IK-Protection Class (DIN EN 50102)	(IK)	IK 07
Lifetime mechanical	(mill.)	> 2

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<b><u>Climatical Data</u></b>	
Operating Temperature	(°C)
Storage Temperature	(°C)

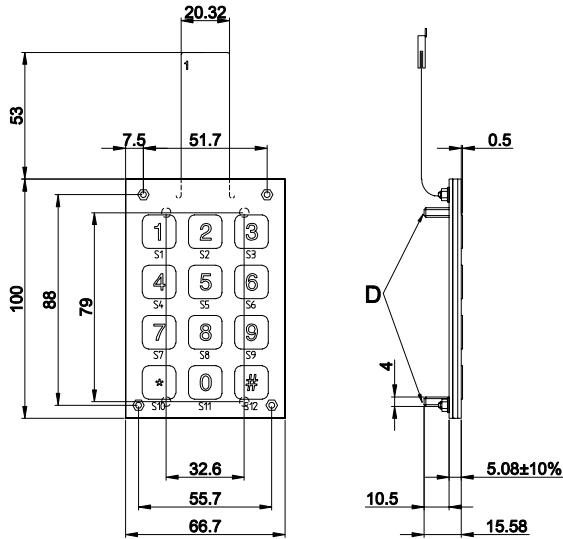
<b><u>Material</u></b>	
Front Panel	Stainless Steel with welding bolts
Keys	Stainless Steel
Supporting Plate	Stainless Steel or Aluminum

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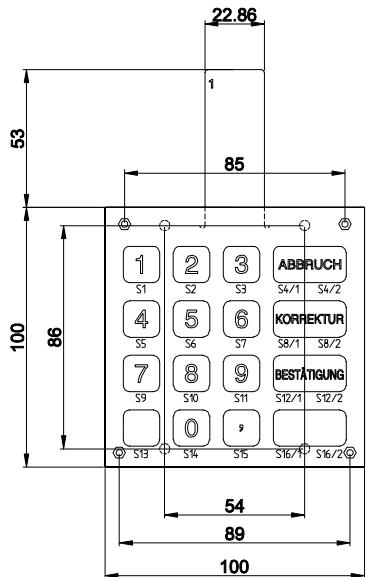
## 2.2 Dimensions 12 key Keypad Front Mounting

**12 key points (67.2x100.5)**

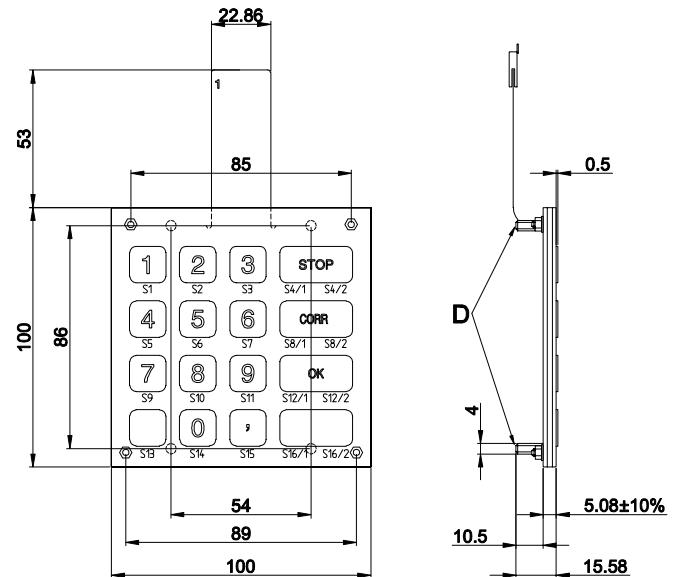


## 2.3 Dimensions 16 Key Keypad Front Mounting

**16 key points (100.5x100.5)**  
Lettering German



**16 key points (100.5x100.5)**  
Lettering English



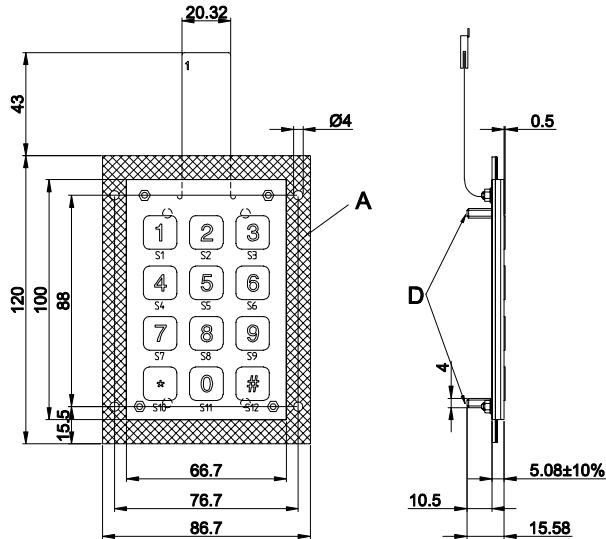
A Mounting Frame  
D Self-clinching studs M4x12

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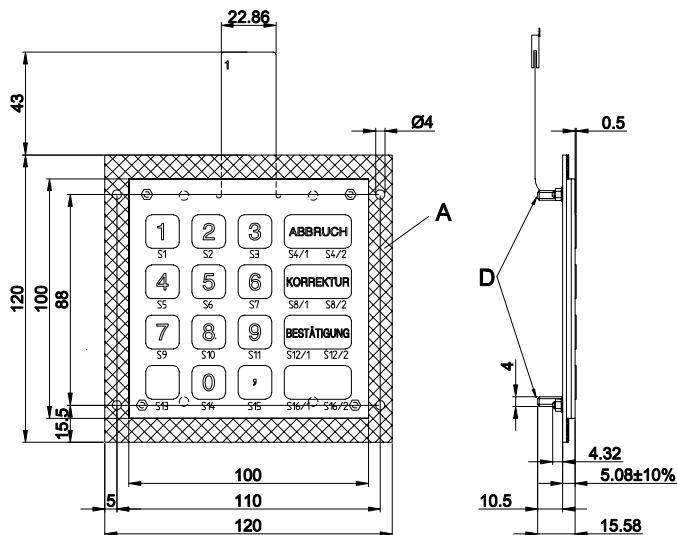
## 2.4 Dimensions 12 key Keypad Rear Mounting

## 12 key points (67.2x100.5)

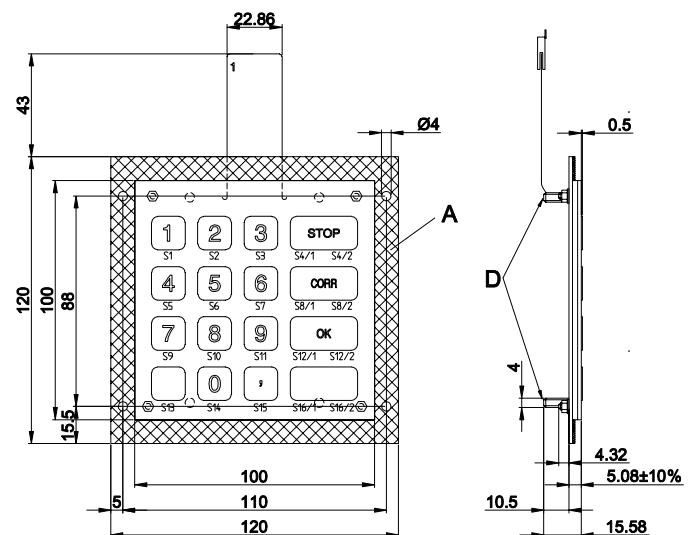


## 2.5 Dimensions 16 key Keypad Rear Mounting

## 16 key points (100.5x100.5) Lettering German



## 16 key points (100.5x100.5) Lettering English



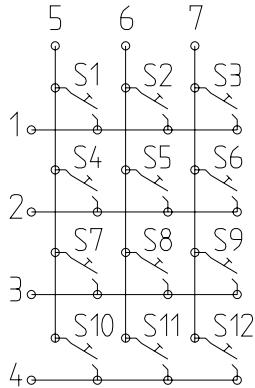
A Mounting Frame  
D Self-clinching studs M4x12

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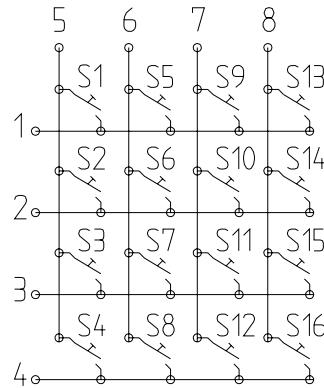
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## 2.6 Circuit Diagram

**12 key Keypad**



**16 key Keypad**



## 3 Order Number

	12 key Keypad	16 key Keypad
Mounting Dimensions (mm)	67.2x100.5	100.5x100.5
Lettering German		
Front Mounting	1041.3500	1041.3000
Rear Mounting	1041.6500	1041.6000
Lettering English		
Front Mounting	---	1041.3100
Rear Mounting	---	1041.6100

### 3.1 Lettering

The lettering showed in the images under 2.2 to 2.5 is standard.  
 Customized versions, lettering or colours of the actuators are available on request.

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#### 4 Packaging

12 key Keypad	5	Reusable packaging
16 key Keypad	5	Reusable packaging



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## 5 Qualification Tests

### 5.1 IP Protection Class

IP Protection Class IEC/DIN/EN/ 60529	Front Side	IP 40
	Contact Area	IP 65

### 5.2 IK Protection Class

Test carried out centrically

IK Protection Class DIN EN 50102	IK 07
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Test carried out with free fall hammer of steel.