

# 12T-ES16

## *Vandalism protected number block*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



12T-ES16

stainless  
steel

### **Description:**

- A vandalism protected number block with 12 buttons in telephone layout in very robust processing.
- Almost insensitive to violence.
- Mounting version for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Key labelling in laser procedure.
- PCB with electronic components or as a matrix version.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices which have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### **Order number for example:**

**notation:** 12T-ES16 T1  
**article number:** 05001T107000003EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

## Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 12 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

## Layouts:

- All variants are possible.

## Variants:

- Custom-designed variants are possible (see our web-site).

## Connecting-Variants:

- DIN, PS/2, USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

## Detail views:

- Ergonomic, compact 13mm button arrangement on the smallest area.



## Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

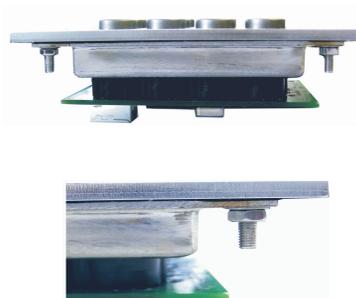
## Principle:

- Contact by a silicon switch pad with carbon contacts.

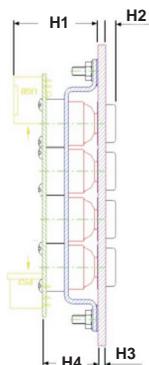
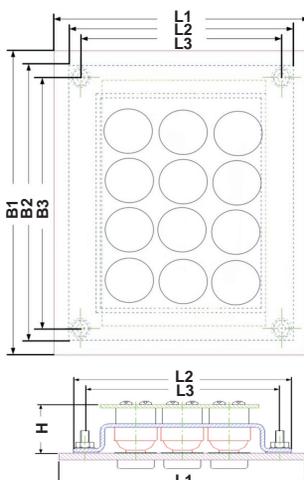
## Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many frequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



## Dimensions:



L1 = 86,6mm  
L2 = 76,0mm  
L3 = 68,6mm

B1 = 103,0mm  
B2 = 93,0mm  
B3 = 85,0mm

H = 21,5mm  
H1 = 32,5mm  
H2 = 3,5mm  
H3 = 3,0mm  
H4 = 21,5mm

More information about the measurements can be downloaded from our web-site.

12T-ES16

stainless  
steel

**DS Keyboard  
Technic GmbH**

Herrenlandstr. 31-35  
78315 Radolfzell

**Tel.:**  
+49 (0) 7732-82385-0

**Fax:**  
+49 (0) 7732-82385-29

**Mail:**  
info@dskeyboard.com

**Internet:**  
www.dskeyboard.com

# 16T-ES19

## *Vandalism protected number block*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



16T-ES19

stainless  
steel

### **Description:**

- A vandalism protected number block with 16 buttons in different layouts in very robust processing.
- Almost insensitive to violence.
- Mounting version for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Key labelling in laser procedure.
- PCB with electronic components or as a matrix version.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices wich have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### **Order number for example:**

**notation:** 16T-ES19 A2  
**article number:** 04005A200700003EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 16 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- DIN, PS/2, USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 15mm button arrangement on the smallest area.



### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

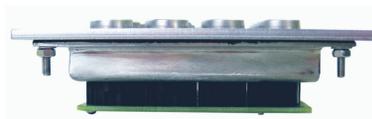
### Principle:

- Contact by a silicon switch map with carbon contacts.

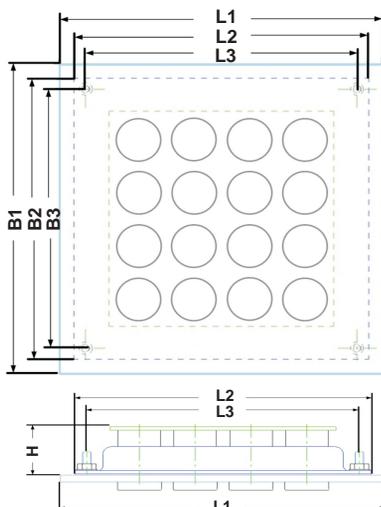
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many frequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 = 110,95mm  
L2 = 100,95mm  
L3 = 92,95mm

B1 = 110,95mm  
B2 = 100,95mm  
B3 = 92,95mm

H = 20,75mm  
H1 = 23,75mm  
H2 = 3,50mm  
H3 = 3,00mm

More information about the measurements can be downloaded from our web-site.

16T-ES19

stainless  
steel

**DS Keyboard  
Technic GmbH**

Herrenlandstr. 31-35  
78315 Radolfzell

**Tel.:**  
+49 (0) 7732-82385-0

**Fax:**  
+49 (0) 7732-82385-29

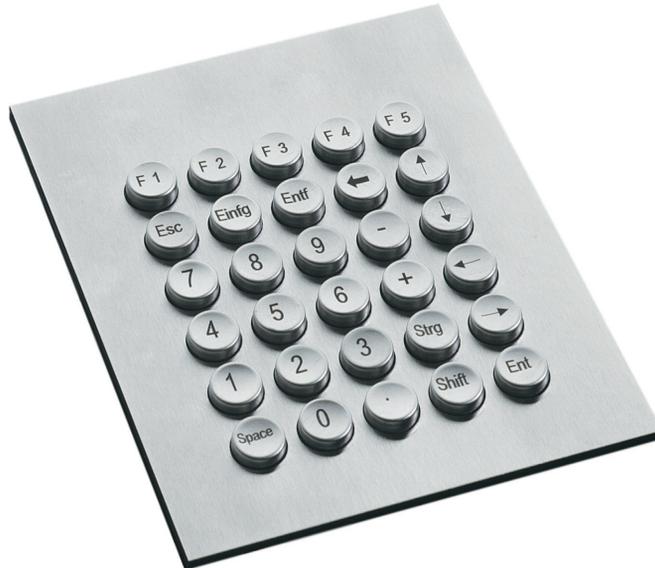
**Mail:**  
info@dskeyboard.com

**Internet:**  
www.dskeyboard.com

# 30T-ES

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



30T-ES

stainless  
steel

### **Description:**

- A vandalism protected keyboard with 30 buttons in different layouts in very robust processing.
- Almost insensitive to violence.
- Mounting version for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Stainless steel construction 1.4301 (buttons, front plate with 3 mm strength) in interaction with a plastic frame.
- Key labelling in laser procedure, all keys totally and freely programmable.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices which have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### **Order number for example:**

**notation:** 30T-ES G MOLEX  
**article number:** 01002020090000EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

## Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 30 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

## Layouts:

- All variants are possible.

## Variants:

- Custom-designed variants are possible (see our web-site).

## Connecting-Variants:

- DIN, SubD9-PS/2, PS/2, USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

## Detail views:

- Ergonomic, compact 15mm button arrangement on the smallest area.



## Electrical Data:

- Power supply + 5 V/DC, 50 mA
- Bidirectional serial output in IBM format / PS/2 / DIN
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

## Principle:

- Contact by a silicon switch pad with carbon contacts.

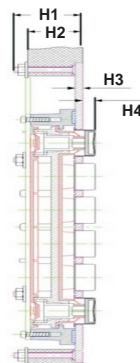
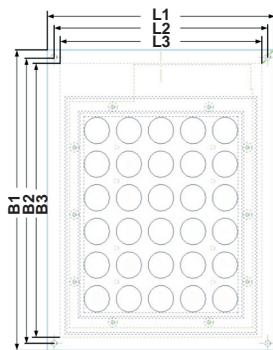
## Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many frequented areas
- and any more

- Very robust steel construction in interaction with a plastic frame
- Qualitatively excellent processing



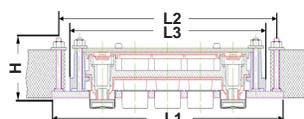
## Dimensions:



L1 = 135,0mm  
L2 = 127,0mm  
L3 = 120,0mm

B1 = 170,0mm  
B2 = 162,0mm  
B3 = 155,0mm

H = 22,5mm  
H1 = 22,5mm  
H2 = 19,0mm max.  
H3 = 2,5mm  
H4 = 4,0mm



More information about the measurements can be downloaded from our web-site.

30T-ES

stainless  
steel

**DS Keyboard  
Technic GmbH**

Herrenlandstr. 31-35  
78315 Radolfzell

**Tel.:**  
+49 (0) 7732-82385-0

**Fax:**  
+49 (0) 7732-82385-29

**Mail:**  
info@dskeyboard.com

**Internet:**  
www.dskeyboard.com

# 62T-ES16

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



62T-ES16

stainless  
steel

### **Description:**

- A vandalism protected keyboard with 62 buttons in different layouts in very robust processing.
- Almost insensitive to violence.
- Mounting version with very low measurements for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Order number for example:**

**notation:** 62T-ES16 G  
**article number:** 040030200700003EE00

More information to each variant and their order numbers,  
see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices wich have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 62 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- PS/2, USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 13mm button arrangement on the smallest area.



### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

### Principle:

- Contact by a silicon switch pad with carbon contacts.

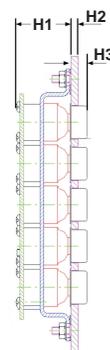
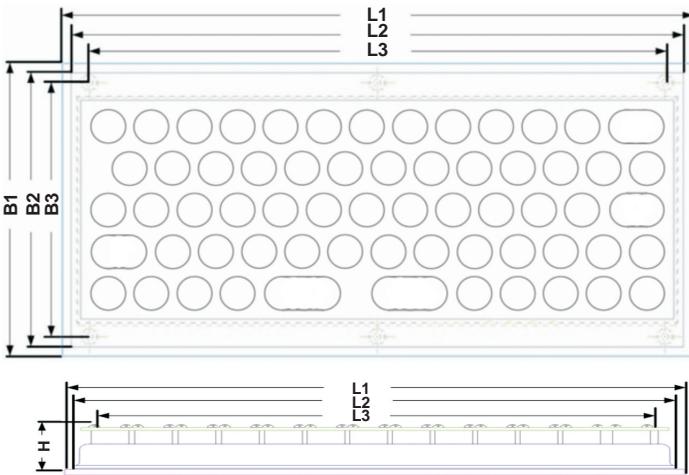
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many freequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 = 240,00mm  
L2 = 233,00mm  
L3 = 219,00mm

B1 = 115,00mm  
B2 = 108,00mm  
B3 = 100,00mm

H = 21,50mm  
H1 = 21,50mm  
H2 = 3,00mm  
H3 = 3,75mm

More information about the measurements can be downloaded from our web-site.

62T-ES16

stainless  
steel

**DS Keyboard  
Technic GmbH**

Herrenlandstr. 31-35  
78315 Radolfzell

**Tel.:**  
+49 (0) 7732-82385-0

**Fax:**  
+49 (0) 7732-82385-29

**Mail:**  
info@dskeyboard.com

**Internet:**  
www.dskeyboard.com

# 62T-ES16-TB

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*

62T-ES16-TB

stainless  
steel



### **Description:**

- A vandalism protected keyboard with 62 buttons in different layouts in very robust processing.
- Integrated 38mm trackball with 3 mouse buttons
- Almost insensitive to violence.
- Mounting version with very low measurements for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Order number for example:**

**notation:** 62T-ES16-TB I  
**article number:** 040031203700003EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Stainless steel trackball with protection IP 65 (static), IP 56 (dynamic).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices which have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 62 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- PS/2-PS/2 (keyb.-trackb.), USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 13mm button arrangement include 38mm trackball.



### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

### Principle:

- Contact by a silicon switch pad with carbon contacts.

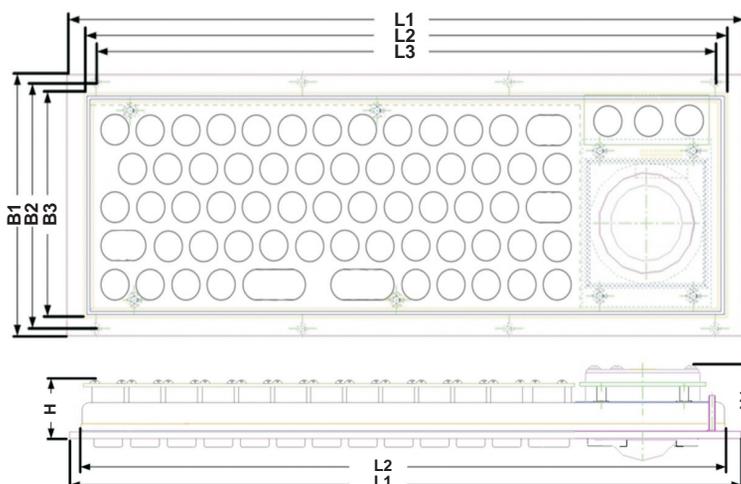
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many frequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 =	315,00mm
L2 =	299,00mm
L3 =	288,00mm
B1 =	115,00mm
B2 =	109,00mm
B3 =	99,00mm
H =	27,55mm
H1 =	32,75mm
H2 =	21,50mm
H3 =	3,00mm
H4 =	3,50mm
H5 =	41,00mm

More information about the measurements can be downloaded from our web-site.

## 62T-ES16-TB

stainless  
steel

### DS Keyboard Technic GmbH

Herrenlandstr. 31-35  
78315 Radolfzell

Tel.:  
+49 (0) 7732-82385-0

Fax:  
+49 (0) 7732-82385-29

Mail:  
info@dskeyboard.com

Internet:  
www.dskeyboard.com

# 65T-ES

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*

65T-ES

stainless  
steel



### **Description:**

- A vandalism protected keyboard with 65 buttons in different layouts in very robust processing.
- Almost insensitive to violence.
- Mounting version for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices wich have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### **Order number for example:**

**notation:** 65T-ES DK  
**article number:** 010031000700003EE00

More information to each variant and their order numbers,  
see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 65 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- PS/2, USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 15mm button arrangement.

### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

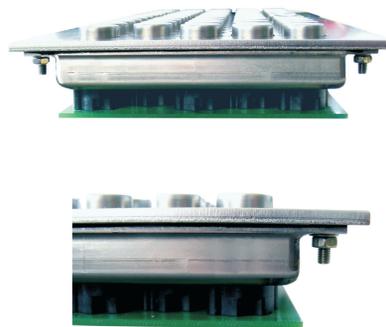
### Principle:

- Contact by a silicon switch pad with carbon contacts.

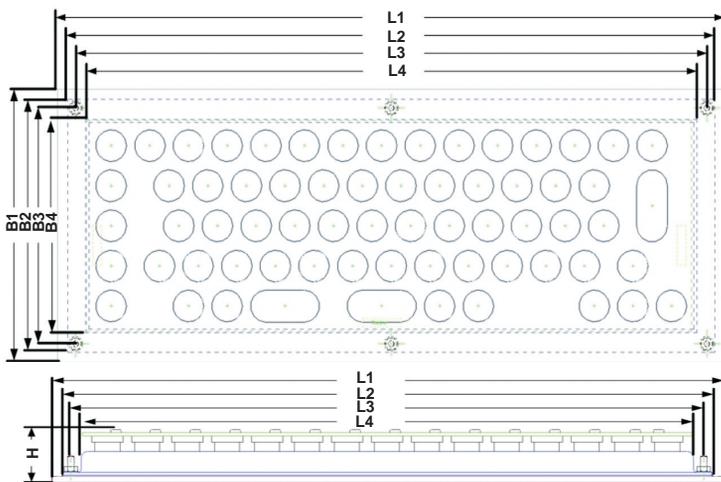
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many frequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 = 329,23mm  
L2 = 319,23mm  
L3 = 311,23mm  
L4 = 298,23mm

B1 = 130,00mm  
B2 = 120,00mm  
B3 = 112,00mm  
B4 = 100,20mm

H = 21,47mm  
H1 = 18,47mm  
H2 = 3,00mm  
H3 = 3,00mm  
H4 = 12,27mm

More information about the measurements can be downloaded from our web-site.

65T-ES

stainless  
steel

**DS Keyboard  
Technic GmbH**

Herrenlandstr. 31-35  
78315 Radolfzell

**Tel.:**  
+49 (0) 7732-82385-0

**Fax:**  
+49 (0) 7732-82385-29

**Mail:**  
info@dskeyboard.com

**Internet:**  
www.dskeyboard.com

# 65T-ES-TB

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*

65T-ES-TB

stainless  
steel



### **Description:**

- A vandalism protected keyboard with 65 buttons in different layouts in very robust processing.
- Integrated 38mm trackball with 3 mouse buttons
- Almost insensitive to violence.
- Mounting version for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Order number for example:**

**notation:** 65T-ES-TB US-KYR  
**article number:** 01003K803700003EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Stainless steel trackball with protection IP 65 (static), IP 56 (dynamic).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices which have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 65 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- PS/2-PS/2 (keyb.-trackb.), USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 15mm button arrangement include 38mm trackball.

### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

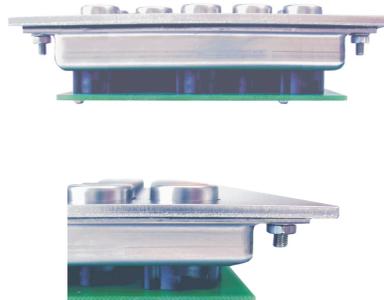
### Principle:

- Contact by a silicon switch pad with carbon contacts.

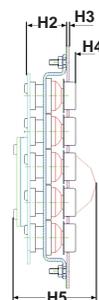
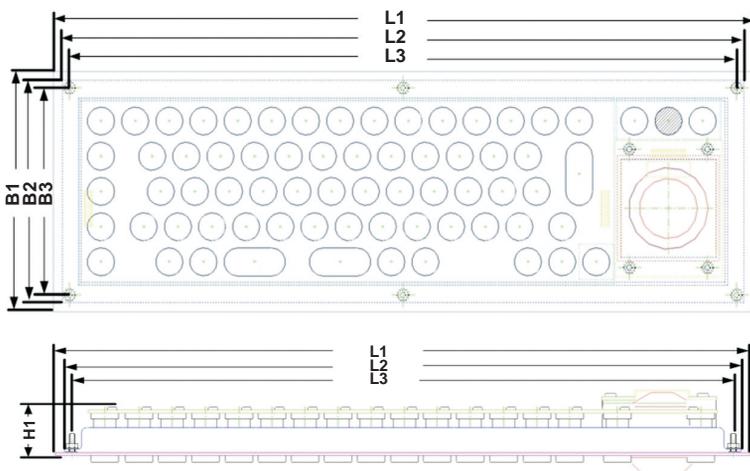
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many freequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 = 390,00mm  
L2 = 380,00mm  
L3 = 372,00mm

B1 = 130,00mm  
B2 = 120,00mm  
B3 = 112,00mm

H1 = 25,56mm  
H2 = 21,47mm  
H3 = 3,00mm  
H4 = 3,00mm  
H5 = 41,00mm

More information about the measurements can be downloaded from our web-site.

## 65T-ES-TB

stainless  
steel

### DS Keyboard Technic GmbH

Herrenlandstr. 31-35  
78315 Radolfzell

Tel.:  
+49 (0) 7732-82385-0

Fax:  
+49 (0) 7732-82385-29

Mail:  
info@dskeyboard.com

Internet:  
www.dskeyboard.com

# 82T-ES16-TB25

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*

82T-ES16-  
TB25

stainless  
steel



### **Description:**

- A vandalism protected keyboard with 82 buttons in different layouts in very robust processing.
- Integrated 25mm trackball with 3 mouse buttons
- Almost insensitive to violence.
- Mounting version with very low measurements for prepared mounting shafts.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Order number for example:**

**notation:** 82T-ES16-TB25 F  
**article number:** 020080103700003EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, front plate with 3 mm strength).
- Stainless steel trackball with protection IP 65 (static), IP 56 (dynamic).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices which have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 82 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- PS/2-PS/2 (keyb.-trackb.), USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 13mm button arrangement include 25mm trackball.

### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

### Principle:

- Contact by a silicon switch pad with carbon contacts.

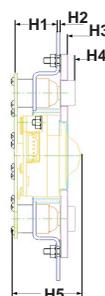
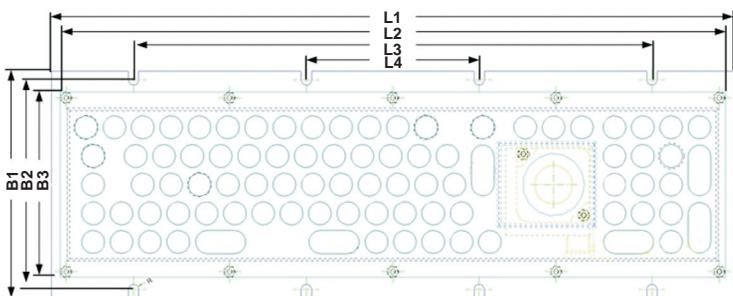
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many freequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 =	395,00mm
L2 =	385,00mm
L3 =	300,00mm
L4 =	100,00mm
B1 =	130,00mm
B2 =	120,00mm
B3 =	106,00mm
H =	24,70mm
H1 =	21,00mm
H2 =	1,50mm
H3 =	3,00mm
H4 =	3,00mm
H5 =	30,40mm

More information about the measurements can be downloaded from our web-site.

## 82T-ES16-TB25

stainless  
steel

### DS Keyboard Technic GmbH

Herrenlandstr. 31-35  
78315 Radolfzell

Tel.:  
+49 (0) 7732-82385-0

Fax:  
+49 (0) 7732-82385-29

Mail:  
info@dskeyboard.com

Internet:  
www.dskeyboard.com

# 86T-ES-TB GEH

## *Vandalism protected keyboard*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



## 86T-ES-TB GEH

stainless  
steel

### **Description:**

- A vandalism protected keyboard with 86 buttons in different layouts in very robust processing.
- Integrated 38mm trackball with 3 mouse buttons
- Almost insensitive to violence.
- Table version in a complete stainless steel enclosure.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,25 mm travel keys with tactile feel.
- Completely in stainless steel construction 1.4301 (buttons, enclosure with 1,6 mm strength).
- Stainless steel trackball with protection IP 65 (static), IP 56 (dynamic).
- Key labelling in laser procedure.
- PCB with electronic components.
- Carbon contact-technology.
- Predestined for the work in public surroundings, in machines and devices wick have to work in extreme damp (even splash water) or very dusty surroundings, and many more.

### **Order number for example:**

**notation:** 86T-ES-TB G PS2-PS2 GEH1  
**article number:** 010070223101500EE00

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### Mechanical Data:

- Travel 3,25 mm, tactile feel
- Operation force 0,65 N
- 86 buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature -0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- PS/2-PS/2 (keyb.-trackb.), USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 15mm button arrangement include 38mm trackball.

### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

### Principle:

- Contact by a silicon switch pad with carbon contacts.

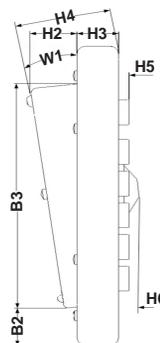
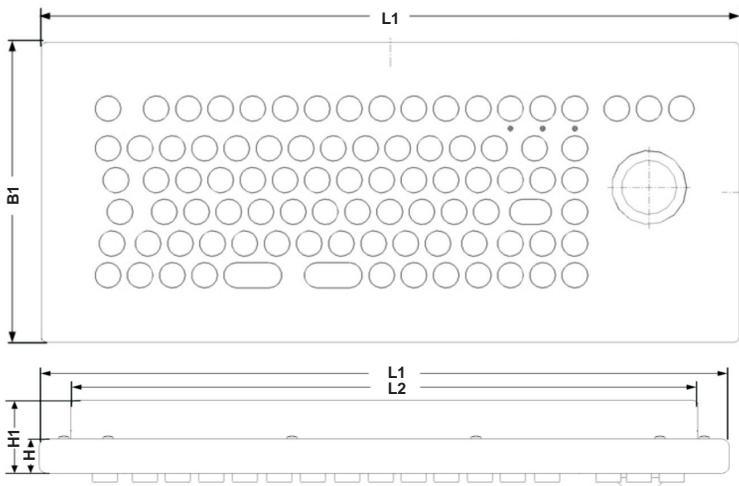
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many freequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



L1 = 413,00mm  
L2 = 375,20mm

B1 = 180,00mm  
B2 = 22,60mm  
B3 = 134,60mm

H = 20,00mm  
H1 = 41,94mm  
H2 = 24,00mm  
H3 = 20,00mm  
H4 = 44,53mm  
H5 = 5,00mm  
H6 = 10,00mm

W1 = 7°

More information about the measurements can be downloaded from our web-site.

## 86T-ES-TB GEH

stainless  
steel

### DS Keyboard Technic GmbH

Herrenlandstr. 31-35  
78315 Radolfzell

Tel.:  
+49 (0) 7732-82385-0

Fax:  
+49 (0) 7732-82385-29

Mail:  
info@dskeyboard.com

Internet:  
www.dskeyboard.com

# 103T-ES-TB38

## *Stainless steel keyboard in a drawer*

- *for public surroundings*
- *extrem weather conditions*
- *and many more*



103T-ES-TB38

stainless  
steel

### **Description:**

- A vandalism protected keyboard with 103 (optional 107) buttons in different layouts in a very robust processing drawer.
- Integrated 38 mm stainless steel trackball with 2 mouse buttons.
- Drawer version with 1 HU wich can be integrated into a 19 inch framework, drawer extension with 8° angle.
- Almost insensitive to violence.
- Explicitly for surroundings where there is danger by vandalism and/or much customer traffic and/or extrem weather conditions.
- Especially suitable for industrial extreme surroundings.

### **Order number for example:**

**notation:** 103T-ES F USB  
**article number:** 08001\*\*\*

More information to each variant and their order numbers, see our web-site at

[www.dskeyboard.com](http://www.dskeyboard.com)

### **Features:**

- All electronic components and mechanical guides are protected against ingress of dust and water spray (protection IP 65).
- Convenient and positive operation due to the 3,20 mm travel keys with tactile feel.
- Stainless steel construction 1.4301 (buttons, keyboard front plate with 2,5 mm strength, trackball with protection IP65 static, IP56 dynamic.
- Drawer extension with ball bearing and magnet interlocking, supplied in 8° angle.
- Complete function key and numeric key bloc, all keys labelling in laser procedure.
- PCB with electronic components and Carbon contact-technology.
- Predestined for the work in public terminals, in machines and devices wich have to work in extreme damp (even splash water) or very dusty surroundings, and many more.



DS KEYBOARD  
TECHNIC GMBH

**DS Keyboard  
Technic GmbH**

Development  
Production  
Distribution

- keyboards
- input modules and switches
- control units and panels
- electronic modules

### Mechanical Data:

- Travel 3,2 mm, tactile feel
- Operation force 0,6 N
- 103 (107) buttons, compact layout
- Durability > 10 million ops.
- Storage temperature -40°C - +70°C
- Operation temperature 0°C - +60°C (optional -20°C - +60°C)
- Protection IP65

### Layouts:

- All variants are possible.

### Variants:

- Custom-designed variants are possible (see our web-site).

### Connecting-Variants:

- USB
- Cable straight or spiral-shaped
- Cable length 1,5 m
- Other length are possible

### Detail views:

- Ergonomic, compact 15mm button arrangement include 38mm trackball.



### Electrical Data:

- Power supply + 5 V/DC, 50 mA
- 2-key roll over
- Autorepeat
- 16k EEPROM memory
- CE-conformable
- EMC-conformable
- RoHS-conformable

### Principle:

- Contact by a silicon switch pad with carbon contacts.

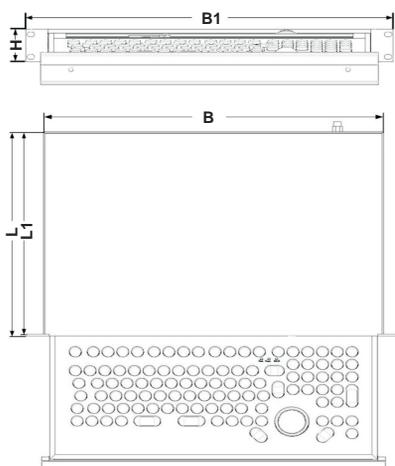
### Use Possibilities:

- Extreme damp (even splash water) surroundings
- Very dusty surroundings
- Test- and measurement systems
- Machine- and device construction
- Trade and craft
- Industry
- Many freequented areas
- and any more

- Very robust steel construction
- Qualitatively excellent processing



### Dimensions:



- L = 306,20mm
- L1 = 303,20mm
- L2 = 185,83mm
- B = 439,00mm
- B1 = 482,60mm
- H = 44,20mm
- A1 = 8°

More information about the measurements can be downloaded from our web-site.