

5: Keyboards



5.1 Keyboard Trays 1 U Overview

- High-quality compact keyboard for all applications
- Very rugged metal housing
- Single mechanical keys with gold contacts
- Designed for continuous use – more than 50 Mio. key presses
- Simple rack mount
- Additional versions with trackball or touchpad
- Country specific keyboard
- Ergonomic design
- Usable with standard drivers of the operating systems

5.1.1 Technical Data

Enclosure:

Dimensions (WxHxD): 19" x 1U x 300 mm
Material : Galvanised sheet metal enclosure
Weight: approx. 5 kg
Colours: Front panel:

- clear anodised
- light grey (RAL 7035)
- black (RAL 9005)

Keyboard housing:

- light grey (RAL 7035)
- black (RAL 9005)

Power supply:

Voltage supply: +5 VDC (PS/2, USB)
Current input: • ± 15 VDC (RS232)

typ. 35 mA (USB: max. 100mA)
max. 3.0 m (Touchpad 1.4m)

General

Storage temperature: -20 °C until 60 °C
Operating temperature: 0°C until 50 °C
Humidity: max. 95 % HR (not condensing)

Trackball: Ø16 mm, opto mechanical encoder
Touchpad: Resolution: 1000 dpi
Lifetime (Overlay): > 10 Mio. strokes

Cable length: 300 mm

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5.2 Keyboard Tray 19", 1U

- **Scope of delivery:**
 - 1 ready for connection keyboard tray
 - 1 adaptor PS/2 → DIN (AT) (Touchpad-Version only)
 - 1 adaptor PS/2 → RS232 (Touchpad-Version only)

5.2.1 Keyboard Tray 19", 1U



5.2.1 Keyboard Tray 19", 1 U

Country Version	Front Panel Colour	Keyboard Housing Colour	Part-No.
Germany (DE)	Clear Anodised	Light Grey RAL 7035	70-170-05E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-170-0533
	Black RAL 9005	Black RAL 9005	70-170-0566
Switzerland (CH)	Clear Anodised	Light Grey RAL 7035	70-170-06E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-170-0633
	Black RAL 9005	Black RAL 9005	70-170-0666
France (FR)	Clear Anodised	Light Grey RAL 7035	70-170-07E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-170-0733
	Black RAL 9005	Black RAL 9005	70-170-0766
US-English (US)	Clear Anodised	Light Grey RAL 7035	70-170-10E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-170-1033
	Black RAL 9005	Black RAL 9005	70-170-1066
UK-English (GB)	Clear Anodised	Light Grey RAL 7035	70-170-12E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-170-1233
	Black RAL 9005	Black RAL 9005	70-170-1266

5.2.2 Keyboard Trays 19", 1 U with Trackball (PS/2)



5.2.2 Keyboard Trays 19", 1 U with Trackball (PS/2)

Country Version	Front Panel Colour	Keyboard Housing Colour	Part-No.
Germany (DE)	Clear Anodised	Light Grey RAL 7035	70-180-05E3-01
	Light Grey RAL 7035	Light Grey RAL 7035	70-180-0533-01
	Black RAL 9005	Black RAL 9005	70-180-0566-01
Switzerland (CH)	Clear Anodised	Light Grey RAL 7035	70-180-06E3-01
	Light Grey RAL 7035	Light Grey RAL 7035	70-180-0633-01
	Black RAL 9005	Black RAL 9005	70-180-0666-01
France (FR)	Clear Anodised	Light Grey RAL 7035	70-180-07E3-01
	Light Grey RAL 7035	Light Grey RAL 7035	70-180-0733-01
	Black RAL 9005	Black RAL 9005	70-180-0766-01
US-English (US)	Clear Anodised	Light Grey RAL 7035	70-180-10E3-01
	Light Grey RAL 7035	Light Grey RAL 7035	70-180-1033-01
	Black RAL 9005	Black RAL 9005	70-180-1066-01
UK-English (GB)	Clear Anodised	Light Grey RAL 7035	70-180-12E3-01
	Light Grey RAL 7035	Light Grey RAL 7035	70-180-1233-01
	Black RAL 9005	Black RAL 9005	70-180-1266-01

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5.2.3 Keyboard Trays 19", 1 U with Touchpad (RS232, PS/2)



5.2.3 Keyboard Trays 19", 1 U with Touchpad (RS232, PS/2)

Country Version	Front Panel Colour	Keyboard Housing Colour	Part-No.
Germany (DE)	Clear Anodised	Light Grey RAL 7035	70-190-05E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-190-0533
	Black RAL 9005	Black RAL 9005	70-190-0566
Switzerland (CH)	Clear Anodised	Light Grey RAL 7035	70-190-06E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-190-0633
	Black RAL 9005	Black RAL 9005	70-190-0666
France (FR)	Clear Anodised	Light Grey RAL 7035	70-190-07E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-190-0733
	Black RAL 9005	Black RAL 9005	70-190-0766
US-English (US)	Clear Anodised	Light Grey RAL 7035	70-190-10E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-190-1033
	Black RAL 9005	Black RAL 9005	70-190-1066
UK-English (GB)	Clear Anodised	Light Grey RAL 7035	70-190-12E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-190-1233
	Black RAL 9005	Black RAL 9005	70-190-1266

5.2.4 Keyboard Trays 19", 1 U with Touchpad (USB)

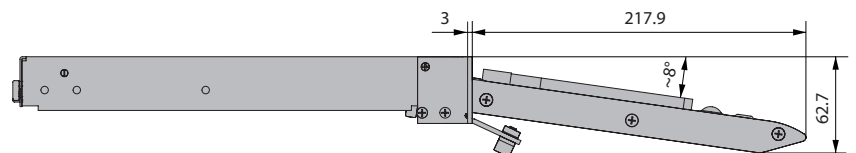
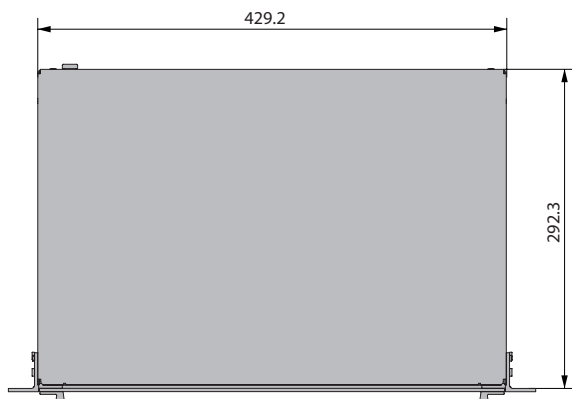


5.2.4 Keyboard Trays 19", 1 U with Touchpad (USB)

Country Version	Front Panel Colour	Keyboard Housing Colour	Part-No.
Germany (DE)	Clear Anodised	Light Grey RAL 7035	70-191-05E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-191-0533
	Black RAL 9005	Black RAL 9005	70-191-0566
Switzerland (CH)	Clear Anodised	Light Grey RAL 7035	70-191-06E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-191-0633
	Black RAL 9005	Black RAL 9005	70-191-0666
France (FR)	Clear Anodised	Light Grey RAL 7035	70-191-07E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-191-0733
	Black RAL 9005	Black RAL 9005	70-191-0766
US-English (US)	Clear Anodised	Light Grey RAL 7035	70-191-10E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-191-1033
	Black RAL 9005	Black RAL 9005	70-191-1066
UK-English (GB)	Clear Anodised	Light Grey RAL 7035	70-191-12E3
	Light Grey RAL 7035	Light Grey RAL 7035	70-191-1233
	Black RAL 9005	Black RAL 9005	70-191-1266

Other country versions or colours available on request

Line Drawing





5.3 Accessories

5.3.1 Keyboard Protective Foil

- Transparent plastic
- Circumferential self-adhesive tape
- Covers all keyboard keys
- Resistance:
 - resistant against isopropyl alcohol
 - resistant to Diesel
 - resistant to detergent
 - resistant to distilled water
 - conditionally resistant against engine oil
 - conditionally resistant against gasoline
 - conditionally resistant against 40% sulphuric acid (battery acid)
- Not usable with touchpad version
- **Scope of delivery:**
 - 1 keyboard protective foil



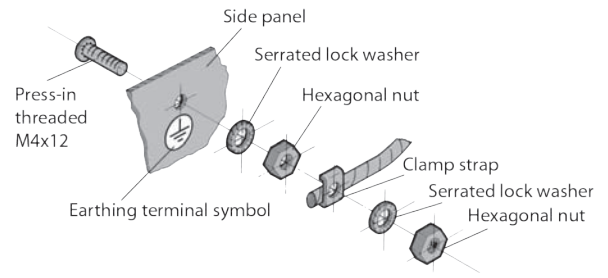
5.3.1 Keyboard Protective Foil

Description	Part-No.
Keyboard protective foil for DE, CH, FR, GB	70-125
Keyboard protective foil for US	70-128

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5.3.2 Earthing Set

- Enables cases to be earthed in conformance with EN / VDE / SEV
- **Scope of delivery:**
 - 1 press-in threaded bolt M4
 - 2 serrated lock washers
 - 2 hexagonal nuts M4
 - 1 terminal clamp
 - 1 earthing symbol



5.3.2 Earthing Set

Description	Part-No.
Earthing set according to EN VDE / SEV	63-174

5.3.3 Support Brackets

- For cabinet depths 470 – 700 mm
- **Scope of delivery:**
 - 2 support brackets
 - 8 hexagon socket cylinder head screws M6 x 15
 - 2 distance plates
 - 2 threaded plates
 - 4 recessed countersunk screws M4 x 10
 - 4 washers
 - 4 hexagonal nuts M4



5.3.3 Support Brackets

Description	Part-No.
Support bracket set	70-089

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5.3.4 Adapter DIN-PS/2

- Scope of delivery:
 - 1 Adapter DIN-PS/2

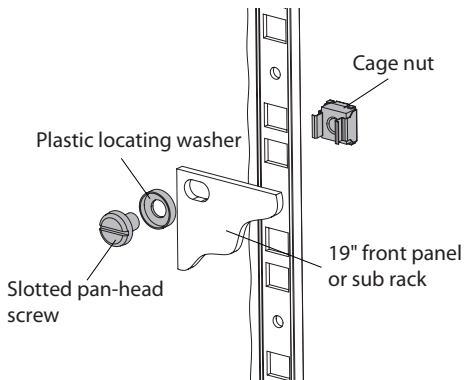


5.3.4 Adapter DIN-PS/2

Description	Part-No.
Adapter DIN-PS/2	7719-10

5.3.5 Assembly Material

- To insert in the square holes in the 19" mounts



5.3.5 Assembly Material

Description	Part-No.	
	1 pc.	100 pcs.
Slotted pan-head screw M6x8	5561-08	1901-51
Slotted pan-head screw M6x12	5561-12	1901-52
Plastic locating washer (M6)	61-007	63-090
Caged nut M6	5625-06	5625-06-2