

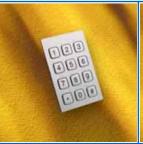


## **FEATURES**

- Vandal-proof protection of switching element by mechanical end stop of metal actuator
- Functional principle protected by utility model
- Long lifetime due to high mechanical load capacity
- Pleasant tactile feedback
- Wide range of possible designs

Туре		Metallic Panel PCB	Metallic Panel flex	Metallic Trackball
Electrical Data				
Switching Voltage min.	[VDC]	20	20	
Switching Voltage max.	[VDC]	30 / 42	30 / 42	
Operating Voltage of Interface	[VDC]			5
Switching Current min.	[mA]	0.1	1	
Switching Current max.	[mA]	100	50	12
Lifetime electrical	[mill.]	2	1	2
Rated Breaking Capacity	[W]	1	0.6	
Insulation Resistance	[MΩ]	> 100	> 100	
Dielectric Strength	[V]	500	500	
Duration of Bounce	[ms]	< 5	< 5	
Mechanical Data				
Actuating Force	[N]	3	3	
Actuating Travel	[mm]	0.45	0.45	
Lifetime mechanical	[mill.]	2	2	2
IK Protection Class (Shock Protect	ion) [IK]	IK 07	IK 07	
Climatical Data				
Operating Temperature	[°C]	-25 to +85	-25 to +85	-10 to +55
Storage Temperature	[°C]	-40 to +85	-40 to +85	-20 to +80
IP Protection Class Front Side	[IP]	IP 40	IP 40	IP 65 static
IP Protection Class Contact Area	[IP]	IP 65	IP 65	
Other Data				
Lettering		Laser Lettered	Laser Lettered	







In addition to the standard types, additional versions as well as laser lettering are available on request. Starting with catalogue page 36 you will find an overview of the various designs.

Trackball Unit

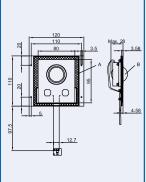
12 key keypad

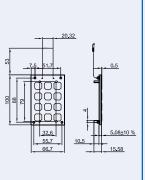
16 key keypad

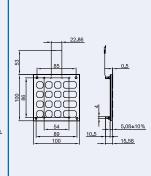
Characteristics				
Mounting Dimensions	[mm]	80.5 x 95.5	67.2 x 100.5	100.5 x 100.5
Type Metallic Panel		Metallic Trackball	Metallic Panel flex	Metallic Panel flex
Mounting Style		Rear Mounting	Front Mounting	Front Mounting
Material Front Panel, Keys		Stainless Steel	Stainless Steel	Stainless Steel
Material Contacts			Silver + Carbon	Silver + Carbon
Trackball / Touchpad		Ball Diameter 38 mm, Colour black, IP 65		
Terminal		Mini DIN for PS/2 Interface or JST Connector	AMP Jack Contacts R-2.54 mm	AMP Jack Contacts R-2.54 mm
Lettering		Standard Lettering / Customized Lettering on request		

Order Number						
Interface / Lettering						
PS/2	1041.5000.500					
USB	1041.5000.501					
Numeric Keypad		1041.3500				
German			1041.3000			
English			1041.3100			

## Drawing A Mounting Frame







B Trackball C Touchpad