

DB9 female connector  
RS-232C serial interface;  
Baud rate: 9600  
Data: 8 bits  
1 STOP  
NO PARITY

**Grafos Steel S.r.l.**  
Via Treves 19/21  
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Title: 12 buttons keypad; rear mounting; with RS-232 interface; white illuminated symbols

P/N: **DGI.12R17.R-B-D** Rev: File: DGI.12R17.R-B-D (Data sheet).idw

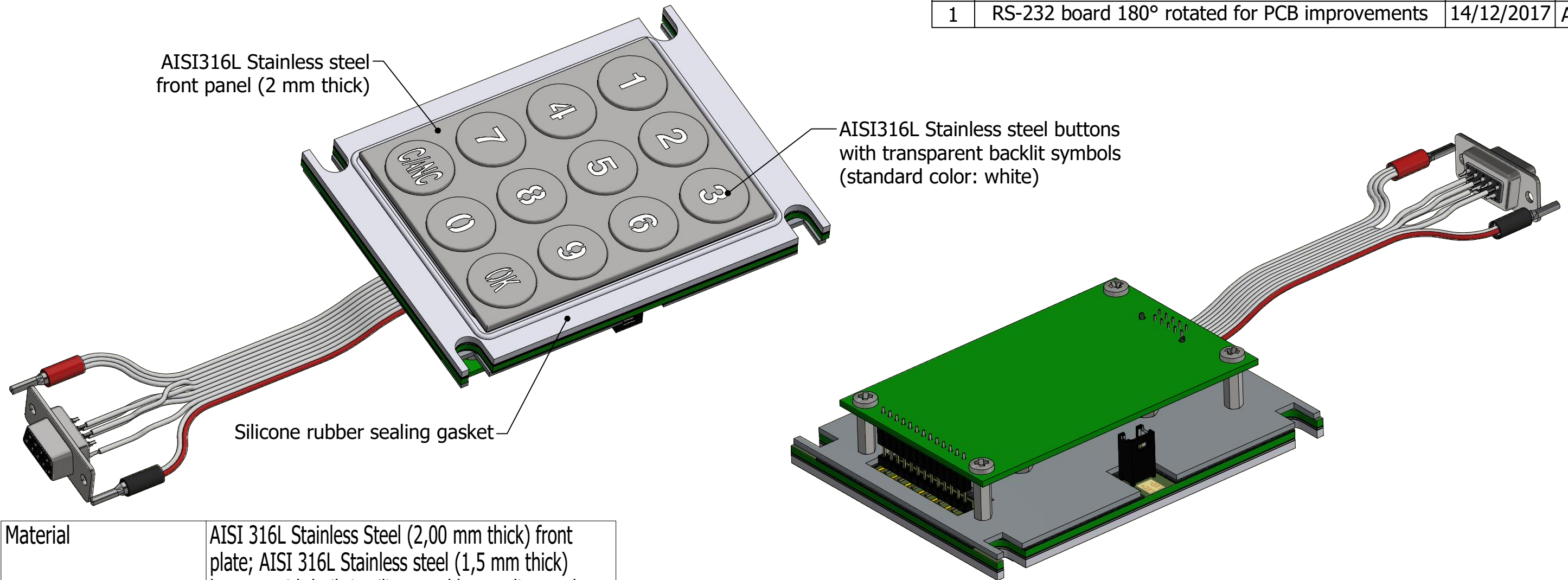
Dimensions without indicated tolerances - precision according to: <b>ISO 2768 M</b>	Tolerance class	Lenght (mm)			
		>0 - 6	>6-30	>30-120	>120-400
	C (Coarse)	± 0.2	± 0.5	± 0.8	± 1.2
	M (medium)	± 0.1	± 0.2	± 0.3	± 0.5
	F (Fine)	± 0.05	± 0.1	± 0.15	± 0.2

Drawn: **A.Tosi**  
Approved:

REV	Description	Date	Signed
1	RS-232 board 180° rotated for PCB improvements	14/12/2017	A.Tosi

Material:	Surface treatment:	Sheet: 1	Of: 2
<b>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS</b>			

REV	Description	Date	Signed
1	RS-232 board 180° rotated for PCB improvements	14/12/2017	A.Tosi



Material	AISI 316L Stainless Steel (2,00 mm thick) front plate; AISI 316L Stainless steel (1,5 mm thick) buttons with built-in silicone rubber sealing gasket
Lettering	White opalescent plastic infill for backlighting
Button stroke	0,6 mm +/- 0,1 mm
Actuation force	4,0 N (typical)
Life expectancy	>3.000.000 cycles
IP Protection rate	IP65
Impact Protection Rate	IK08
Contact technology	Stainless steel metal dome on Gold plated PCB
Connection (serial interface)	DB9 female connector; RS232C Serial Interface Baud rate 9600; 8 data bits; 1STOP; NO PARITY
Connection (backlighting)	AMP MODU HEADER 2 PINS (280370-1)
Power supply (serial interface)	+12Vdc ÷ +24Vdc; I <sub>max</sub> =55mA @ +12Vdc
Power supply (backlighting)	+12Vdc; I <sub>max</sub> =480mA
Operating temperature	-25°/+85°C
Storage temperature	-25°/+85°C

The keyboard is designed to input an alphanumeric code and to send it to a remote host system. The keyboard is provided with a built in RS232C serial interface with following configuration: baud rate 9600; 8 data bit; NO parity; 1 STOP bit. The transmission buffer on the keyboard has a maximum capacity of 80 characters; for current application, buffer size is permanently set to 6 chars. When a key is pressed, the buffer is loaded with a byte corresponding to the **ASCII code of the key**; when the CANCEL key is pressed, the buffer is deleted. Typing on the keyboard generates a confirming beep from the internal buzzer. When the ENTER key is pressed, the interface sends buffer content to the remote host system and clears the buffer.

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	P/N <b>DGI.12R17.R-B-D</b>	Rev:	File: DGI.12R17.R-B-D (Data sheet).idw		
Date: 02/12/2013	Dimensions without indicated tolerances - precision according to: <b>ISO 2768 M</b>	Tolerance class		Length (mm)	Drawn: <b>A.Tosi</b> Approved:
Material:		>0 - 6	>6-30	>30-120	
Surface treatment:		C (Coarse)	± 0.2	± 0.5	± 0.8
	M (medium)	± 0.1	± 0.2	± 0.3	± 0.5
	F (Fine)	± 0.05	± 0.1	± 0.15	± 0.2
		Sheet: 2	Of: 2		

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