

Grafos Steel S.r.l.
 Via Treves 19/21
 41043 Formigine (MO) ITALY
 Tel. +39.059.57.50.267
 www.grafossteel.it

Date:
 09/12/2016

Material:
 -

DGI Inox Keyboard; 38 buttons (R17 keycap) horizontal layout; rear mount; serial RS232

interface
 ND

Dimensions without indicated tolerances -
 precision according to:
 ISO 2768 F

Rev:

File:

DGI.38R17.RO-D (Data Sheet).idw

Tolerance class

Lenght (mm)

Tolerance class	>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

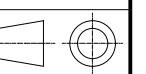
Approved:

Sheet:

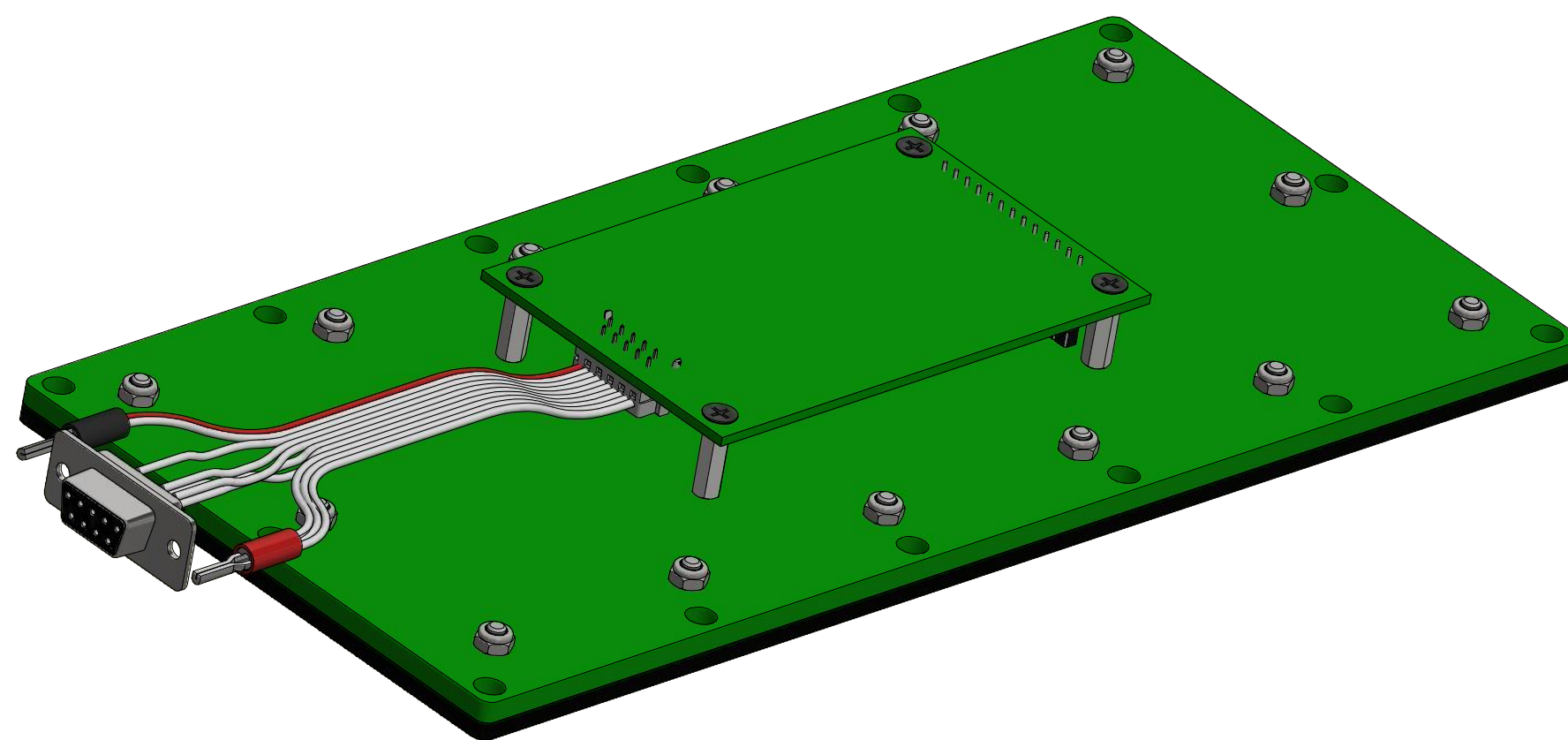
Of:

1

2



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS



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.

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	Chemical etching and colour filling (epoxy paint)
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	DB9 female connector; RS232C Serial Interface Baud rate 9600; 8 data bits; 1STOP; NO PARITY
Power supply	+12Vdc ÷ +24Vdc; I _{max} =55mA @ +12Vdc
Operating temperature	-25°/+85°C
Storage temperature	-25°/+85°C

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		M (medium)	± 0.2 ± 0.5 ± 0.8 ± 1.2
		F (Fine)	± 0.1 ± 0.2 ± 0.3 ± 0.5
			± 0.05 ± 0.1 ± 0.15 ± 0.2
		Surface treatment: -	Sheet: 2 Of: 2

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