

General Specifications

Mechanical

Material:	Stainless Steel (304) Case / Bezel Wear & Chemical resistant Polyester overlay
Mounting:	Cased, Bezel, Rear or Flush mount
Dimensions (mm):	Reference Dimensions below
Weight (g):	3.4Kg cased, 1.5Kg uncased
Keys:	Sealed mechanical
Key Travel:	0.4mm
Life Expectancy:	>1 million switch cycles
Operating Force:	160gf ± 50gf
Ball Material:	Phenolic Resin
Ball Colour:	Black
Ball Size:	50mm (2")
Resolution:	200 pulses/ball revolution
Tracking Force:	<50gms (nominal)
Ball Revolutions:	>6 million

Environmental

Operating Temp.:	-20°C to +60°C
Storage Temp.:	-40°C to +85°C
Relative Humidity:	95% non-condensing
Seal:	IP65
Vibration:	5G, 5-2KHz any plane

Electrical and Electronic

Supply Voltage:	5V DC ± 5%
Supply Current:	<75mA (non-illuminated)
Interface:	USB on 2 metre cable

General

MTBF:	60,000 hours
MTTR:	20 minutes
Warranty:	3 year standard return to base Extendable to 5 years if required

Options and Customisation

Options

Interface:	USB / PS2 / AT / RS232 / RS422 / RS485 / XT/ TTL / DEC / SUN
Mechanics:	Stainless steel case or bezel

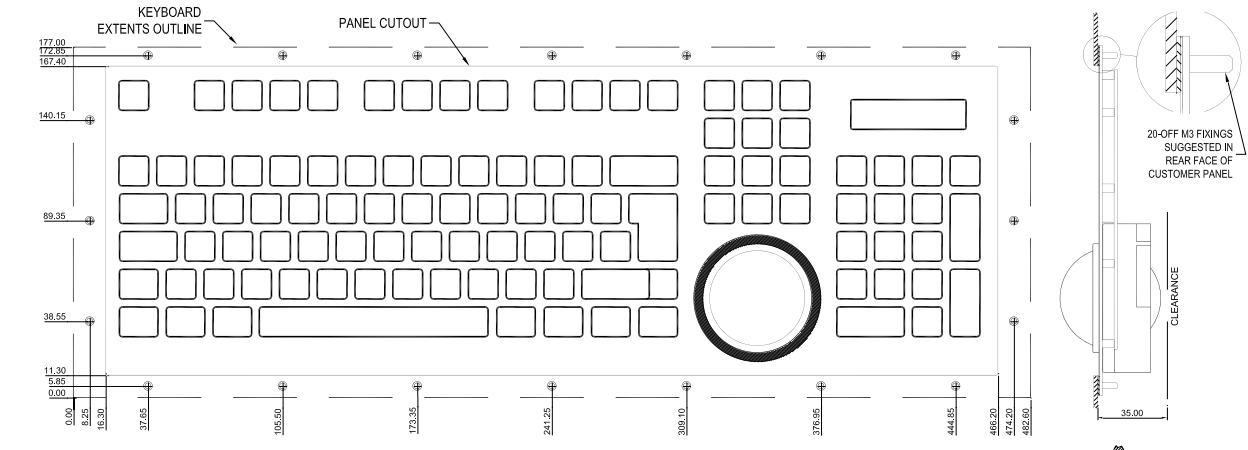
Customisation

Colour:	Full customisation of case colour and Logos available
Trackerball:	Various colours and stainless steel
Coding:	Key operations can be customised to fit software needs
Dimensions:	Physical dimensions can be customised
Front Sheet:	Language and custom variants
Key Illumination:	Full or part key illumination via white LED back lighting

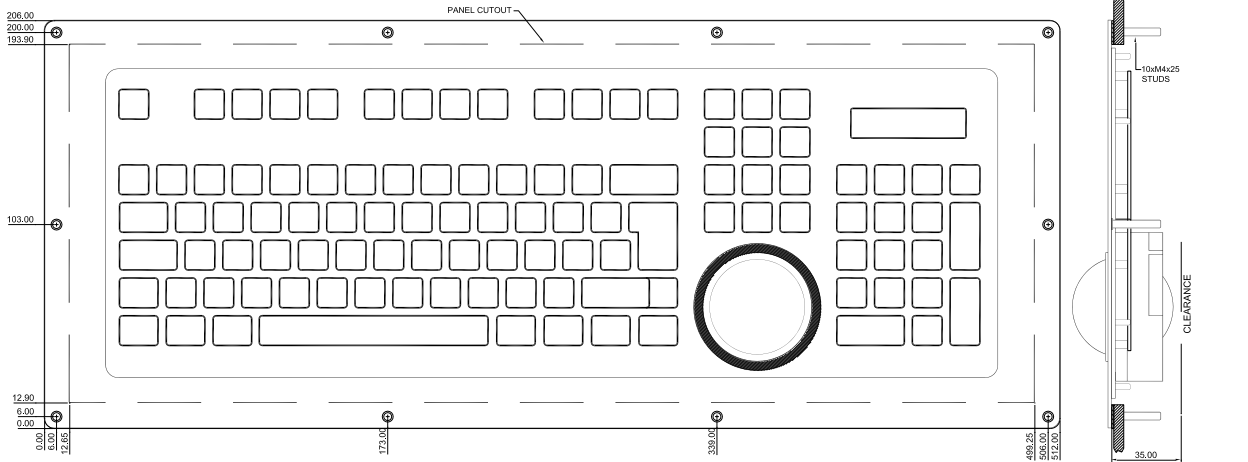


Dimensions

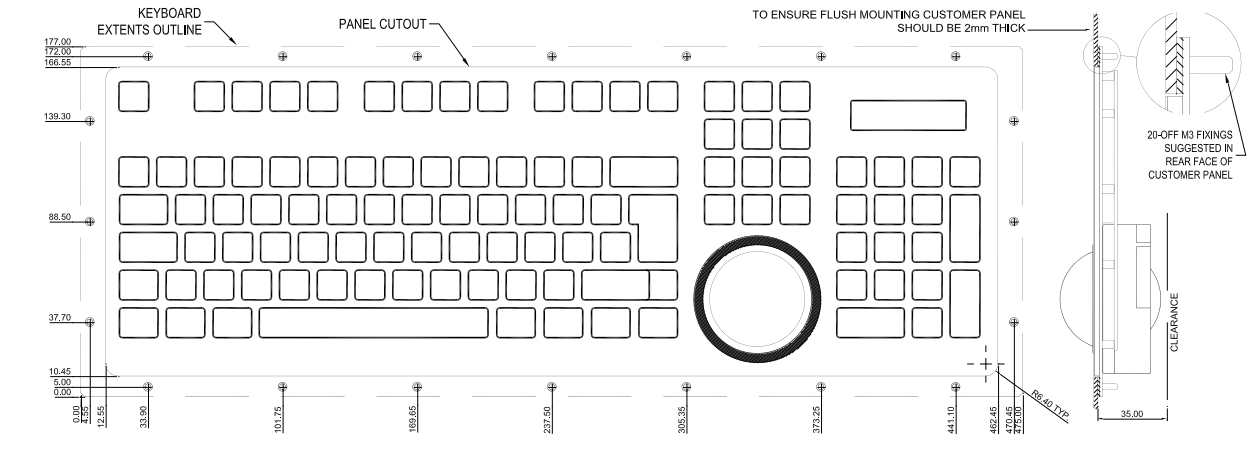
REAR MOUNT



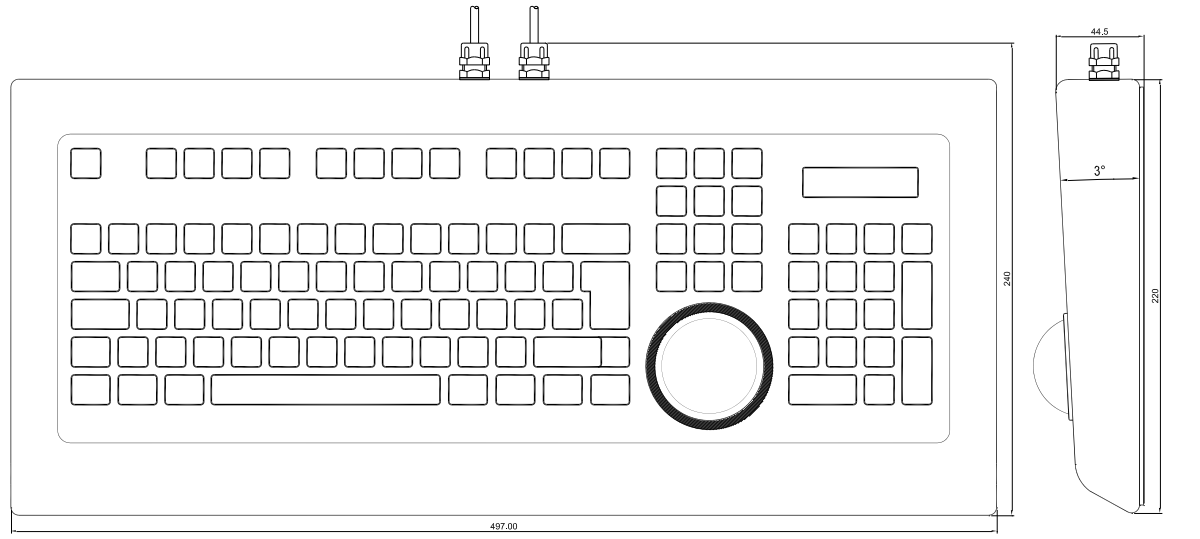
BEZEL MOUNT



FLUSH MOUNT



CASED

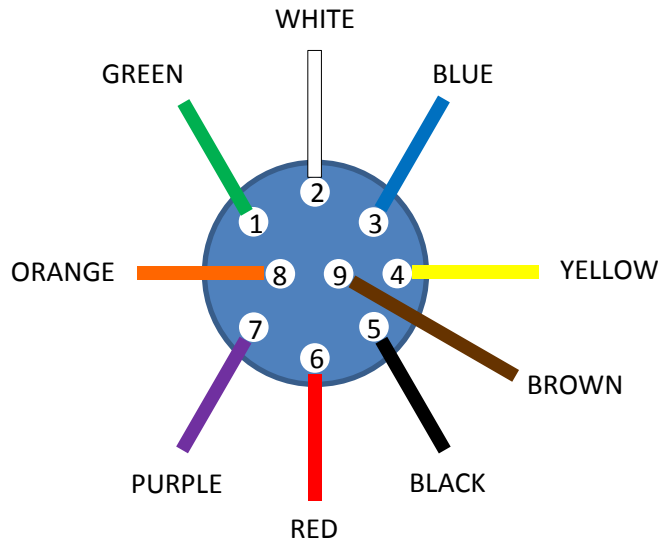


BULGIN COM Connector Details

Detailed below is the wiring assembly for the BULGIN plug for connection to a SOCKET COM port.

Recommended wire gauge 24AWG.

Viewed from
wiring side



Pin	Colour	RS232	RS422	RS485
1	Green	DCD	TX-	RTX-
2	White	RXD	RX+	
3	Blue	TXD	TX+	RTX+
4	Yellow	DTR	RX-	
5	Black	GND	GND	GND
6	Red	+5VDC	+5VDC	+5VDC
7	Purple (Violet)	RTS		
8	Orange	CTS		
9	Brown	DSR		