imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

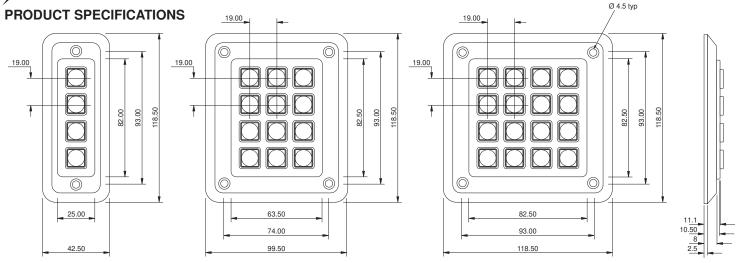


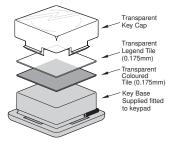
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GFX-Illuminator SERIES Keytop Assembly Instructions

Illuminated Series keypads are supplied with the key bases fitted. Each key position can be customised without dismantling the keypad. Keytop options can be selected from a library of standard symbols, characters or background colours. Alternatively, customised keytop graphics can be created using laser printed acetate film or screen printed polymer film. The total thickness of the coloured tile and legend tile should not

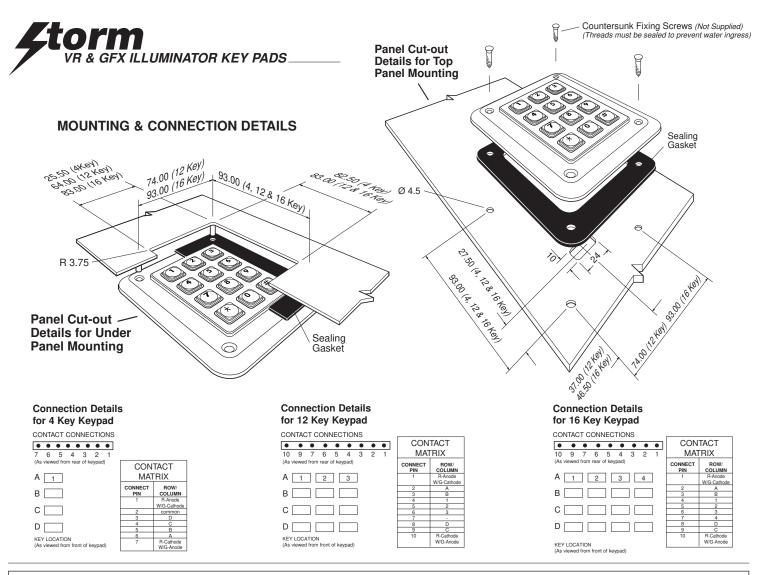
exceed 0.4mm. (Please note, paper is not recommended as the printed graphics may degrade if exposed to moisture / condensation.)

- Orientate the keypad correctly by checking the connector position on the underside of the keypad.
- 2 Load each key position in turn. First locate the legend tile into the transparent key cap, then locate the transparent coloured tile (see diagram). Before snapping the

transparent key cap, including legend and customer tile, into position ensure that the legend tile's position, orientation and alignment are correct.

Please note, if it is necessary to remove the transparent key cap a suitable tool or pliers should be used. Once removed the key cap should not be re-used; spare key caps and bases are available in sets of 4, part number GS0000.

Vandal Resistant Impact Resistant IP Rating Key Life (cycles) Service Temp. (non condensing) Case Material Case Colour Contact Materials Contact Bounce Contact Resistance Insulation Resistance Breakdown Voltage Operating Voltage (contacts) Operating Current (contacts) Keytop Travel Actuating Force Connector	VR Yes Yes Up to IP67 4 Million -40°C to +100°C Chromed zinc Silver Carbon/Gold 5ms 100 ohms (max) 50 Mohms (min) 500 V (60 secs) 24V dc (max) 50 mA (max) 1.4mm (nominal) 180gm (nominal) 0.1" Pitch, gold plated square pin, male with locking ramp	GFX No No Up to IP54 2 Million -10°C to +75°C Super impact polymer Black Carbon/Gold 5ms 100 ohms (max) 50 Mohms (min) 500 V (60 secs) 24V dc (max) 50 mA (max) 1.4mm (nominal) 180gm (nominal) 0.1" Pitch, gold plated square pin, male with locking ramp
White Back Light Power Requirement		Current limited to nx10mA @ Vf n = Number of keys Vf = 3.5V (typical) 4.2V (max) Reverse voltage, Vr = 5V max
Red Back Light Power Requirement	Current limited to nx20mA @ Vf n = Number of keys Vf = 1.8V (typical) 2.6V (max)f	Current limited to nx20mA @ Vf n = Number of keys Vf = 1.8V (typical) 2.6V (max)
Green Back Light Power Requirement	Current limited to nx20mA @ Vf n = Number of keys Vf = 2.2V (typical) 2.6V (max)	Current limited to nx20mA @ Vf n = Number of keys Vf = 2.2V (typical) 2.6V (max)



ACCESSORIES FOR USE WITH STORM ILLUMINATOR RANGE KEYPADS

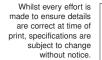
Item		Stock No.Notes		Graphic Keytop Accessories Enables custom configuration of keytop graphics and colour	
Uni	versal Enco	ler	400000	Keypad Interface. PC/RS232	Set A: $0 - 9$, \leftarrow , \rightarrow , \uparrow , ψ , *, #, +, , \div , =, ., X, AC, I/O, ENT, CE/C, SP.
Rea	ar Casing	Providing space for additional components or circuitry (12 key formats only)	RC1202	Supplied complete with fixing hardware, sealing gaskets and fixing instructions	Set B: €, →, ↑, ♥, ENT, PRINT, DEL, INS, CAP, ESC, CTRL, ALT, ON, OFF, /, LOCK, ît, ↦, ît, \$£, :, ;, ', ↩ , SP.
Bla	nk Keytops (Storm 1000 Series) set of four	1K0000	Supplied without keytop graphics. Suitable for engraving	Set D: FI TO F12, £, \$, ?, !, (,), @, <, >, Fn, ", ', %, &, SP. Set F: 0 - 9, →, A - F, CE/C, ENT, OFF, *, #, +, -, ., blank, SP. Set C: "A TO Z"
	/acy Shroud Key format o	Provides PIN / Entry Code security nly)	1KFS02	Supplied complete with fixing hardware, sealing gaskets and fixing instructions	Set E: Blank Set J: French symbols Set K: German symbols
					1 pair for 4 key keypad, 2 pairs for 12/16 key keypads & 3 pairs for 36 key keypad.

VR-Illuminator Keypads

Description	Order Code	Description	Order Code
4 Keypad - cursor	IKL041101	12 Keypad - Standard	IKL12T101
4 Keypad - cursor	IKL041103	12 Keypad - Standard	IKL12T103
4 Keypad - Function	IKL042101	16 Keypad - Calculator	IKL160101
4 Keypad - Function	IKL042103	16 Keypad - Calculator	IKL160101
12 Keypad - Calculator	IKL120101	16 Keypad - Standard	IKL16T101
12 Keypad - Calculator	IKL120103	16 Keypad - Standard	IKL16T103

GFX-IIIuminator Keypads								
	Red, Green Lights							
Order Code	Description	Order Code GSRG040201						
GSLW040203	4 Keypad	GSRG040203 GSRG120201						
GSLW120203	12 Keypad	GSRG120203						
GSLW160201 GSLW160203	16 Keypad 16 Keypad	GSRG160201 GSRG160203						
	Order Code GSLW040201 GSLW040203 GSLW120201 GSLW120203 GSLW160201	Red, Green Lights Order Code Description GSLW040201 4 Keypad GSLW040203 4 Keypad GSLW120201 12 Keypad GSLW120203 12 Keypad GSLW120201 12 Keypad GSLW120203 12 Keypad GSLW120203 12 Keypad GSLW120203 12 Keypad GSLW160201 16 Keypad						

All dimensions in millimetres (mm). Full product specifications are available on request from your local Storm supplier. Storm keypads incorporate key switch technology protected by International Patents.



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