

EAO – Your Expert Partner for
Human Machine Interfaces



EAO Product Information

S.series Lite



Description 3

Product Assembly 4

Keypads 5

Technical Data..... 6

Drawings..... 7

Index..... 11

Product Information

General notes

The 12 or 16 key S.series Lite keypads are specially designed for public environment applications, such as vending machines, ticket machines, payment terminals, telephones and access control systems.

The S.series Lite looks like a metal keypad, but the keys and housing are crafted from Lexan™, a polycarbonate which is known for its incredible strength and high-impact resistance. It is also protected to IP67 against water, oil and dirt ingress and the metal-look finish is scratch-resistant to ensure long-lasting good looks.

Versions

12 key telephone layout

16 key hexadecimal

Illuminated and non-illuminated

Illumination

Yellow or blue LEDs. Other colours are available on request.

Mounting

The keypad may be mounted from either the front or rear of a panel.

Front mounted keypads require a small cutout for the pin header connector on the back side of the S.series Lite.

Rear mounted keypads are mounted through a rectangular cutout.

To ensure IP 67 sealing a gasket is supplied with the keypad and this is suitable for both forms of mounting.

Terminals

Connects through external pin-header connection.

Available in either matrix or common point configuration.

Marking

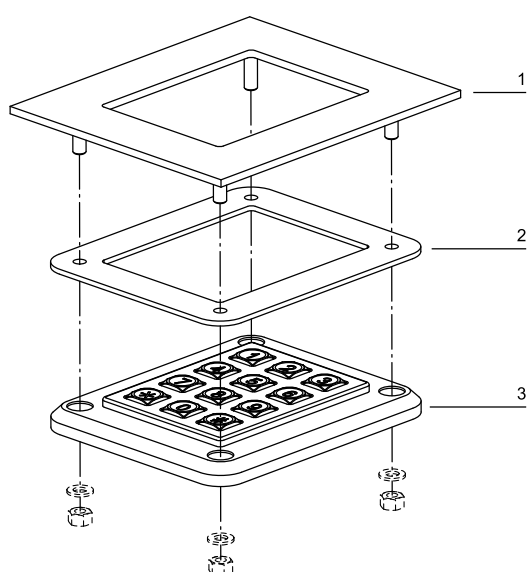
Precision marking using laser etching and engraving.

Custom markings or symbols on request.

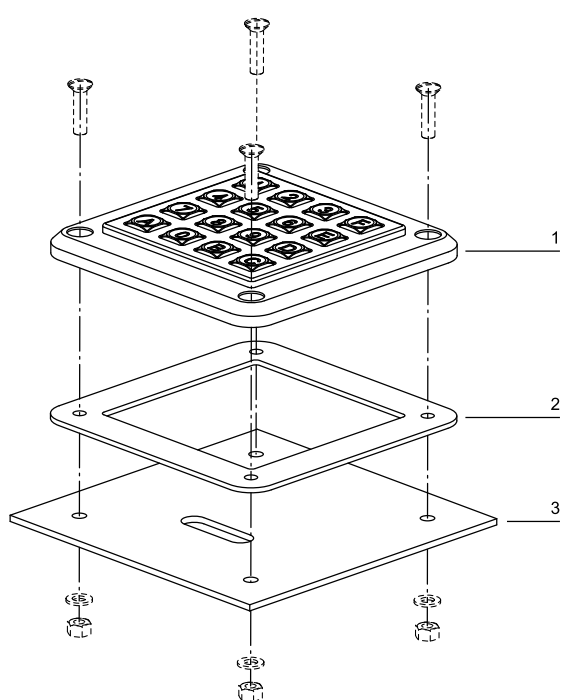
We reserve the right to modify technical data

All dimensions in mm

Back mounting



Front mounting



Keypad



	Front protection	Terminals	No. of keys	Marking	Illumination	Circuit	Ø 82 x 82 mm Typ-Nr.	□ 63 x 82 mm Typ-Nr.	Component layout	Mounting dimensions	Technical drawing	
Keypad non-removable plastic keys	IP 67	PH	16	Hexadecimal	LED blue	P	SL.16300.211		4	2	2	0.250
						M	SL.16350.211		1	2	2	0.250
					LED yellow	P	SL.16300.241		4	2	2	0.250
						M	SL.16350.241		1	2	2	0.250
				Hexadecimal black	without	P	SL.16300.001		4	2	2	0.250
						M	SL.16350.001		1	2	2	0.250
			12	Telephone	LED blue	P		SL.12100.211	3	1	1	0.200
						M		SL.12150.211	2	1	1	0.200
					LED yellow	P		SL.12100.241	3	1	1	0.200
						M		SL.12150.241	2	1	1	0.200
				Telephone black	without	P		SL.12100.001	3	1	1	0.200
						M		SL.12150.001	2	1	1	0.200

Other options on request :

Custom colours, LED colours and markings

Terminals: PH = Pin header

Circuit: P = Common point, M = Matrix

Component layout from page 7, Mounting dimensions from page 9, Technical drawing from page 10

Keypad

Material

Keys

Polycarbonate (PC), metal-look finish

Housing

Acrylnitrilbutadienacrylate (ABS) / Polycarbonate (PC), metal-look finish

Back plate

Steel chromated

Contacts

Carbon pills
Carbon on Cu tracks

Climate resistance

as per EN IEC 60512-6
Damp heat 21 days
Dry heat 10 days, +85 °C
Saline mist 96 hours

Approvals

Declaration of conformity

CE

Mechanical characteristics

Actuating force

1 N ... 3 N

Actuating travel

1.3 mm ±0.3 mm

Rebound time

≤40 ms

Electrical characteristics

Operating voltage/-current

Nominal 5 V, 5 mA
Maximum voltage 24 V
Minimum voltage 0.5 V
Minimum current 0.1 mA

Illumination

LED consumption 20 mA at 5 V; 10 mA at 5 V (blue)

Isolation resistance

≥1000 MΩ at 100 VDC

Contact resistance

≤200 Ω

Electrical life

4 Million cycles of operation per key

Electrostatic breakdown value

5 kV

Electric strength

1500 V_{rms}, 50 Hz, 1 min., as per EN IEC 60512-2

Environmental conditions

Storage temperature

-30 °C ... +85 °C

Operating temperature

-25°C ... +85°C

Front protection

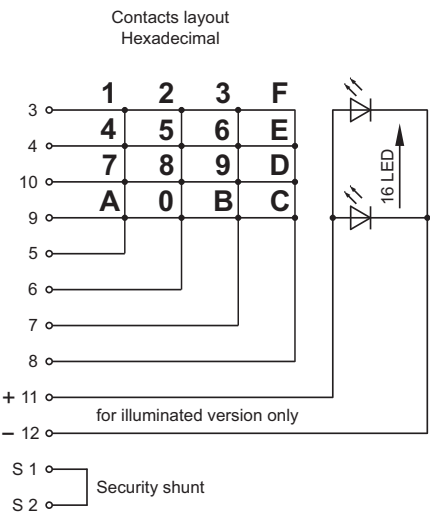
IP 67 as per IEC 60529, when mounted

Impact resistance

IK 09 (10 J)

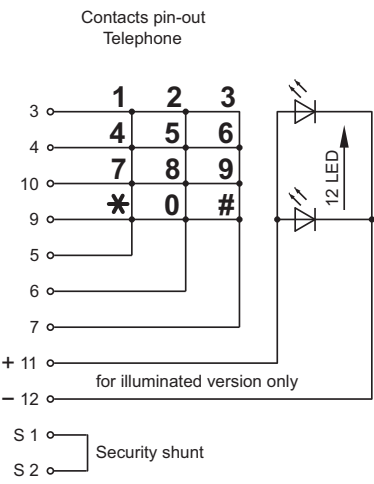
Component layout

1 Keypad page 5

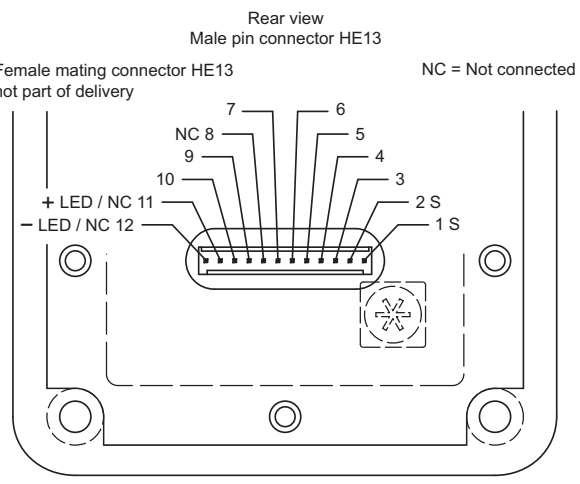
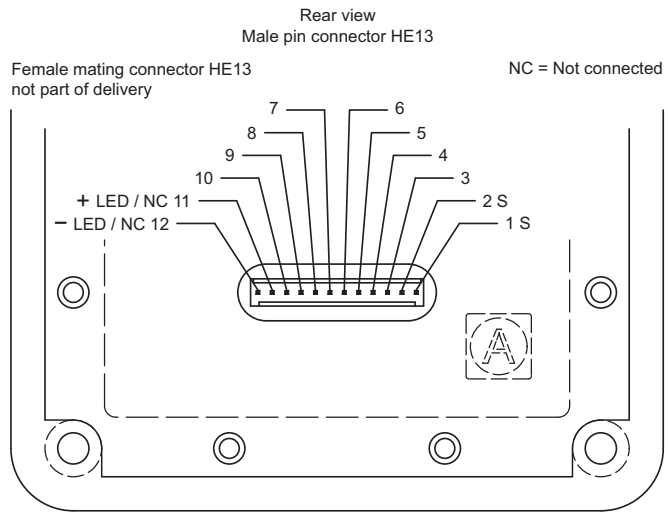


12 keys, Matrix, Hexadecimal

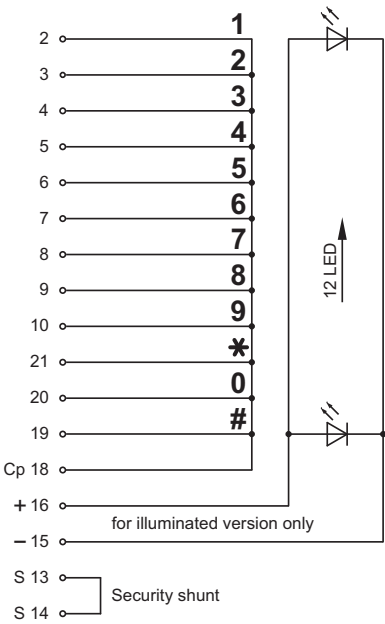
2 Keypad page 5



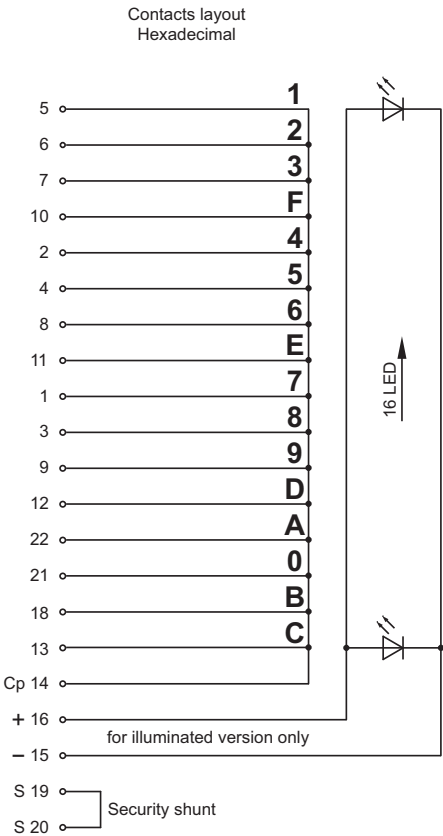
12 keys, Matrix, Telephone



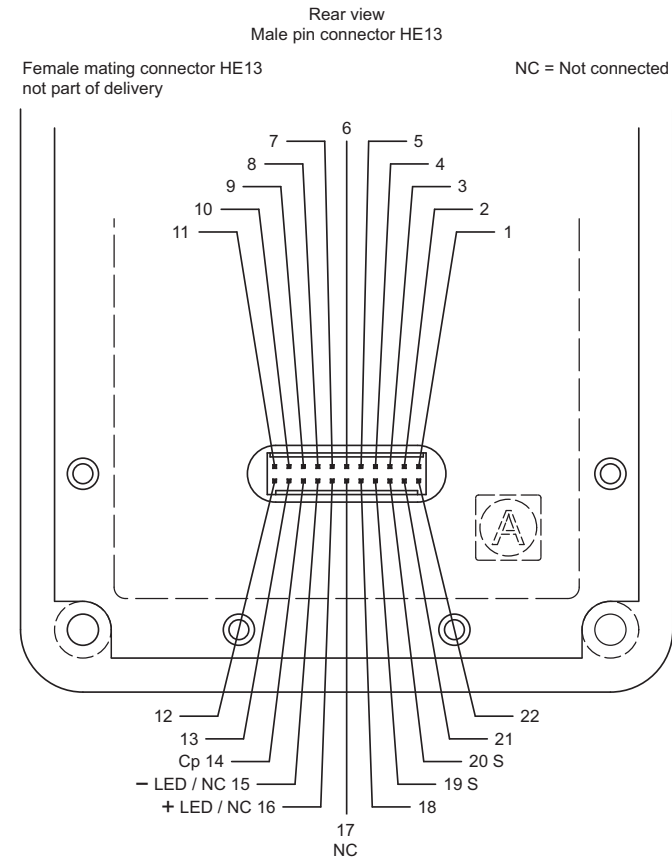
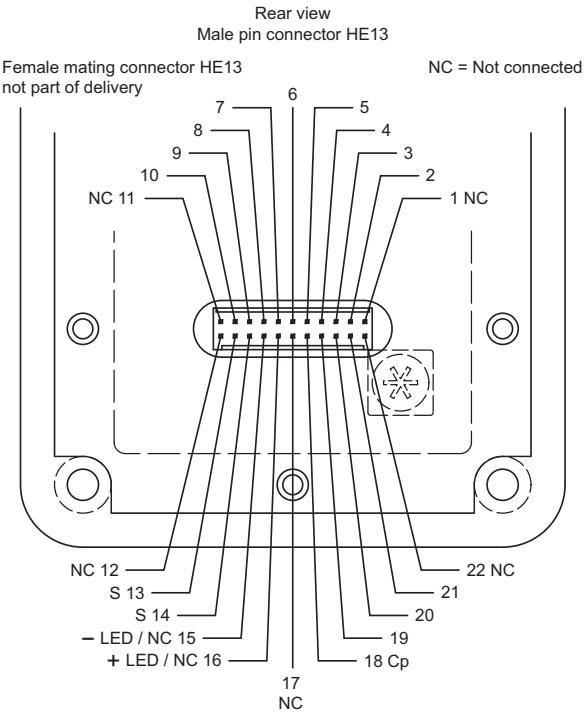
Contacts layout
Telephone



4 Keypad page 5

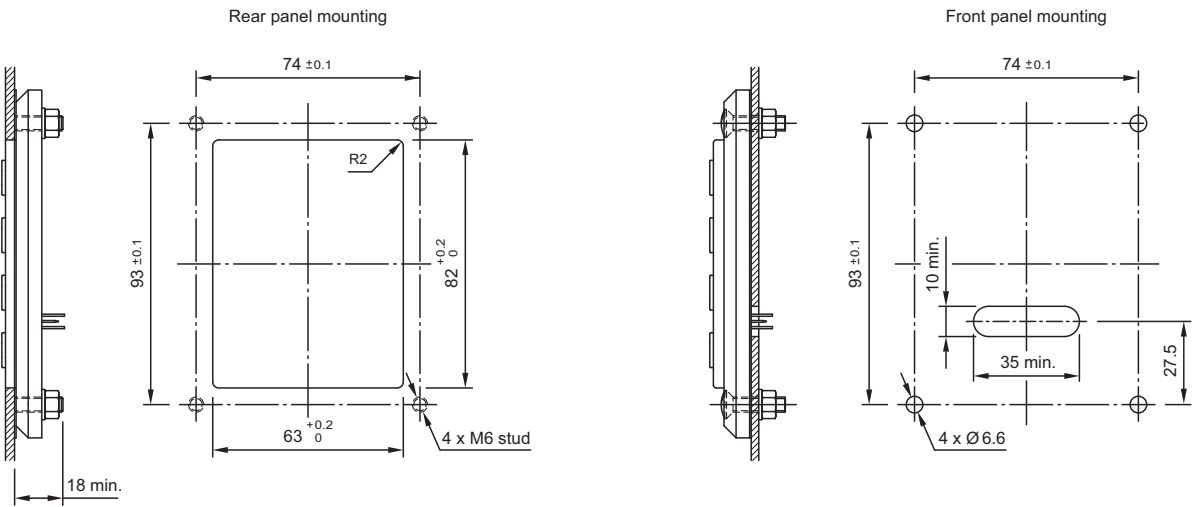


12 keys, Common point, Hexadecimal



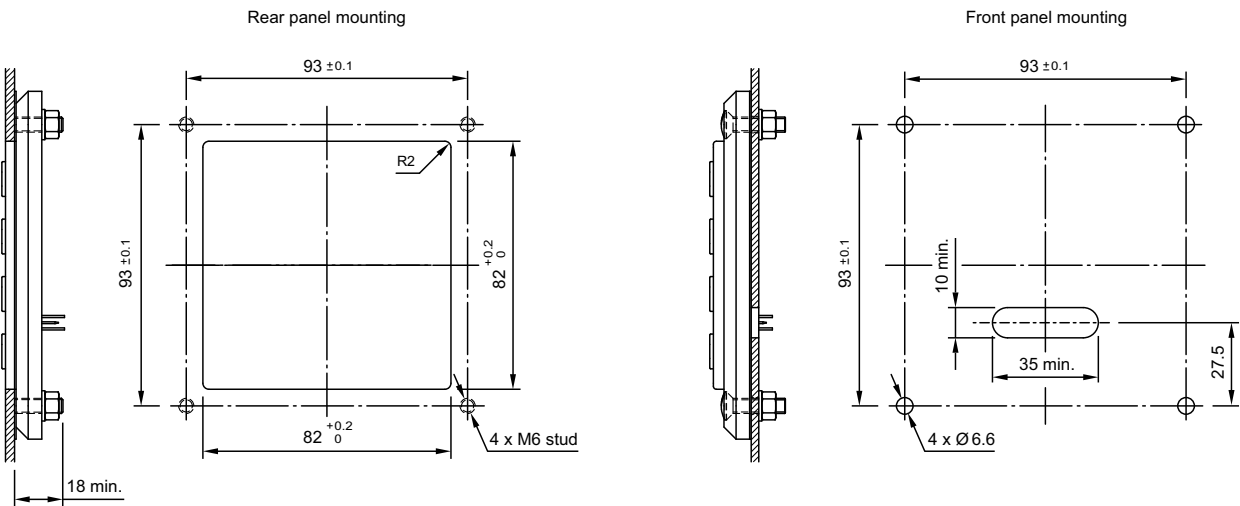
Mounting dimensions

1 Keypad page 5



12 keys

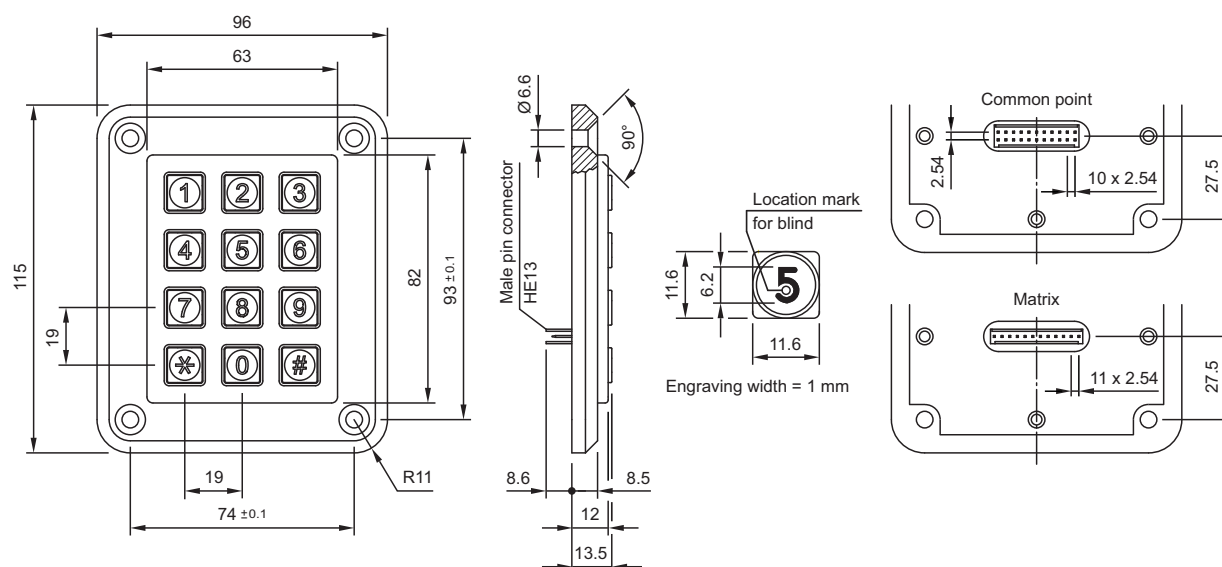
2 Keypad page 5



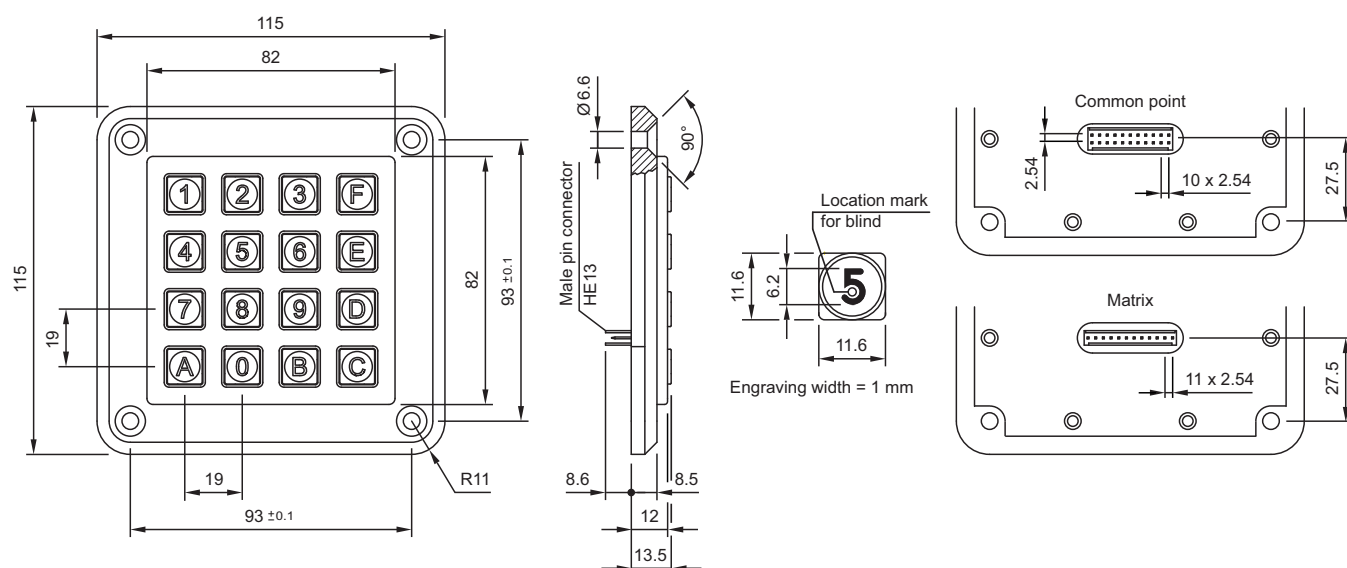
16 keys

Technical drawing

1 Keypad page 5



2 Keypad page 5



Index from Typ-Nr.

Typ-Nr.	Page	Typ-Nr.	Page	Typ-Nr.	Page
SL.12100.001	5				
SL.12100.211	5				
SL.12100.241	5				
SL.12150.001	5				
SL.12150.211	5				
SL.12150.241	5				
SL.16300.001	5				
SL.16300.211	5				
SL.16300.241	5				
SL.16350.001	5				
SL.16350.211	5				
SL.16350.241	5				

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