

S.series Lite Keypad



EAO introduces the S.series Lite, an extremely durable keypad which combines the appearance of metal with the advantages of new materials.

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.

The S.series Lite is specially designed for public use, such as vending machines, ticket machines, payment terminals, telephones and access control systems.

The S.series Lite has the same dimensions as our standard S.series, can be used outdoors or indoors and has CE and RoHS approval.

Versions

- 12 key telephone layout.
- 16 key hexadecimal.
- Illuminated and non-illuminated.

Illumination

- Yellow or blue LEDs (other colours available on request).

Mounting

- Keypads can be mounted from the front or rear with gasket (supplied).
- Front mounting: requires a small cut-out for the pin header connector.
- Rear mounting: fits into rectangular cut-out.

Connection

- Connects through external pin-header connection.
- Available in either matrix or common point configuration.

Marking

- Precision marking using laser etching and marking.
- Custom markings or symbols on request.

Materials

- Keys Polycarbonate, anti-pull-off
- Housing ABS / Polycarbonate
- Back plate Steel chromated
- Contacts Carbon pill / Carbon on Cu tracks
- Plastic materials UL 94 HB

Mechanical characteristics

- Actuating force 1 N ... 3 N
- Actuating travel 1.3 mm ±0.3 mm
- Rebound time <40 ms
- Impact resistance IK09

Electrical characteristics

- Operating voltage/current Nominal 5V, 5 mA
Maximum voltage 24 V
Minimum voltage 0.5 V
Minimum current 0.1 mA
- Illumination (by LED) 5 V (all colours)
- 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 discharge 5 kV
- Electric strength 1500 Vrms, 50 Hz, 1 min.,
as per EN IEC 60512-2

Environmental conditions

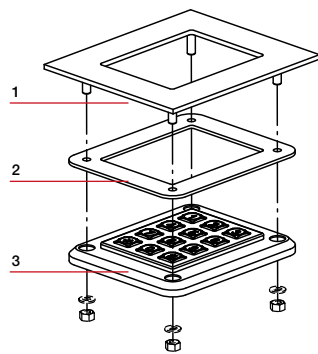
- Storage temperature -30 °C ... +85 °C
- Operating temperature -25 °C ... +85 °C
- Front protection IP67 as per IEC 60529, when mounted
as per EN IEC 60512-6
- Climate resistance Damp heat: 21 days
Dry heat: 10 days, +85 °C
Saline mist: 96 hours

S.series Lite Keypad

S.series Lite keypad, 12 key

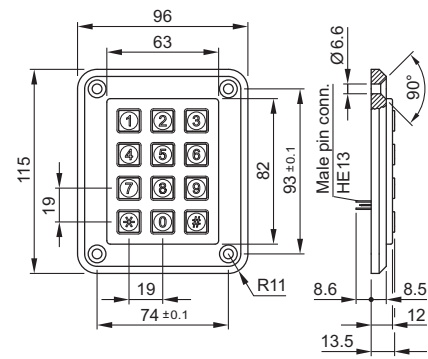


Assembly drawing: rear mounting



- 1 Panel
- 2 Gasket
- 3 Keypad

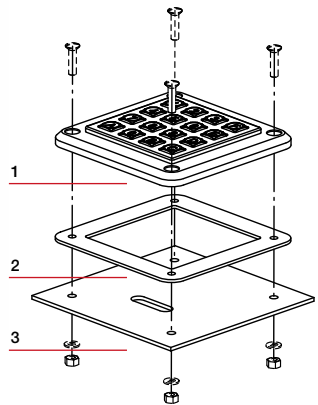
Technical drawing 1



S.series Lite keypad, 16 key

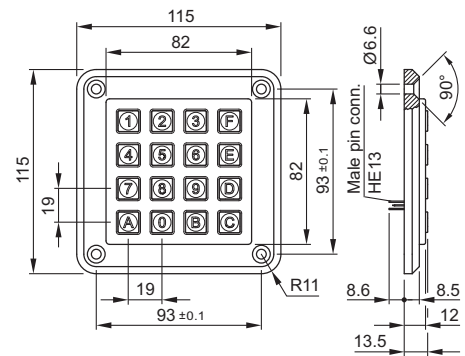


Assembly drawing: front mounting



- 1 Keypad
- 2 Gasket
- 3 Panel

Technical drawing 2



| | No. of keys | Marking | Illumination | Circuit | 63 x 82mm Part no. | 82 x 82mm Part no. | Technical drawing | KG |
|--|-------------|------------------|--------------|--------------|--------------------|--------------------|-------------------|------|
| Keypad Non-removable plastic keys Protected to IP67 and IK09 Pin header terminals Front or rear mounting | 12 | Telephone | LED, blue | P | SL.12100.211 | | 1 | 0.20 |
| | | | | M | SL.12150.211 | | 1 | 0.20 |
| | | | P | SL.12100.241 | | 1 | 0.20 | |
| | | M | SL.12150.241 | | 1 | 0.20 | | |
| | | Telephone, black | Without LED | P | SL.12100.001 | | 1 | 0.20 |
| | | | M | SL.12150.001 | | 1 | 0.20 | |
| | 16 | Hexidecimal | LED, blue | P | | SL.16300.211 | 2 | 0.25 |
| | | | | M | | SL.16350.211 | 2 | 0.25 |
| | | | P | | SL.16300.241 | 2 | 0.25 | |
| | | M | | SL.16350.241 | 2 | 0.25 | | |
| Hexidecimal, black | | Without LED | P | | SL.16300.001 | 2 | 0.25 | |
| | | M | | SL.16350.001 | 2 | 0.25 | | |

Other options on request. Custom colours, LED colours and markings. Circuit: P = Common point, M = Matrix