

For other options or further information please contact your local sales office.

Product Profile

The S.series is a high quality, vandal resistant keypad range especially designed to meet the needs of public environment applications, vending machines, ticket machines, door entry systems, telephones and industrial machinery.

Technical data see page 113

Technical drawings see pages 114-115

- Illuminated or non illuminated options
- Anti pull-off keys
- High impact resistance
- All metal construction (chromed Zamak keys and housing)
- IP67 front face sealing with gasket supplied
- Front or rear panel mounting
- 12 or 16 key versions

Non illuminated keypad



Non illuminated keypad, 3x4 keys, pin header connection

Part No.	Output type
S.16350.211	Matrix
S.16300.211	Common point



Non illuminated keypad, 4x4 keys, pin header connection

Part No.	Output type
S.16350.001	Matrix
S.16300.001	Common point

Illuminated Keypad



Illuminated keypad, 3x4 keys, pin header connection

LED colour	Part No.	Output type
Yellow	S.12150.241	Matrix
Yellow	S.12100.241	Common point
Blue	S.12150.211	Matrix
Blue	S.12100.211	Common point



Illuminated keypad, 4x4 keys, pin header connection

LED colour	Part No.	Output type
Yellow	S.16350.241	Matrix
Yellow	S.16300.241	Common point
Blue	S.16150.211	Matrix
Blue	S.16100.211	Common point

Keypad

Material

Keys

Zamak 5 with chrome finish

Housing

Zamak 5 with chrome finish

Back plate

Steel chromated

Contacts

Carbon pill

Carbon on Cu tracks

Mechanical characteristics

Actuating force

1 N ... 3 N

Actuating travel

1.3 mm \pm 0.3 mm

Rebound time

\leq 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

Current consumption for single LED :

20 mA at 2.1 V (yellow and green)

20 mA at 1.9 V (red)

10 mA at 3.4 V (blue)

Isolation resistance

\geq 1000 M Ω at 100 VDC

Contact resistance

\leq 200 Ω

Electrical life

4 Million cycles of operation per key

Electrostatic breakdown value

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

IP 67 as per IEC 60529, when mounted

Climate resistance

as per EN IEC 60512-6

Damp heat : 21 days

Dry heat : 10 days, +85 °C

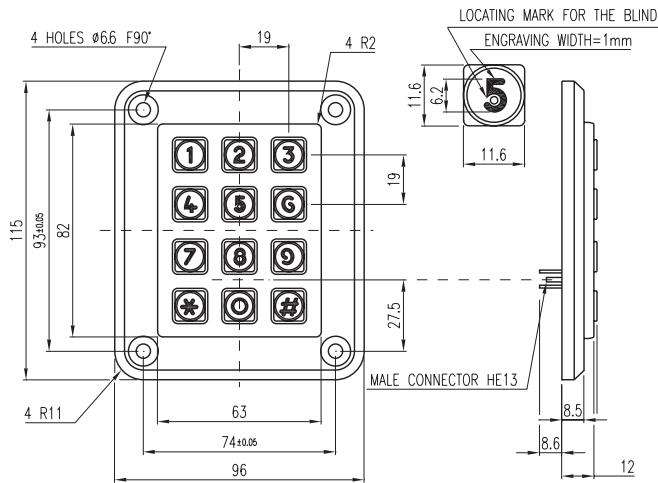
Saline mist : 96 hours

Impact resistance

IK10 (20 J)

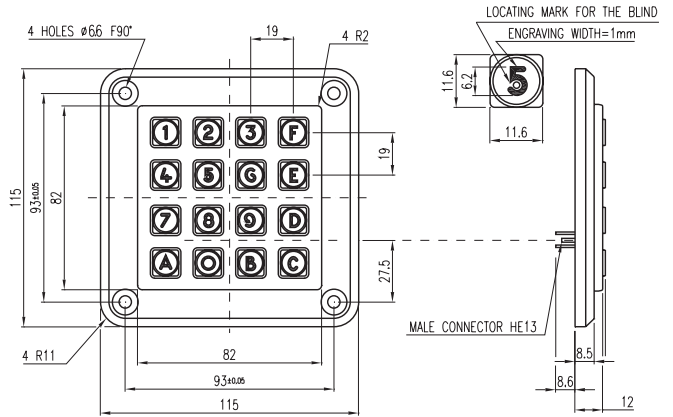
S.series Keypad

3x4 Keypads



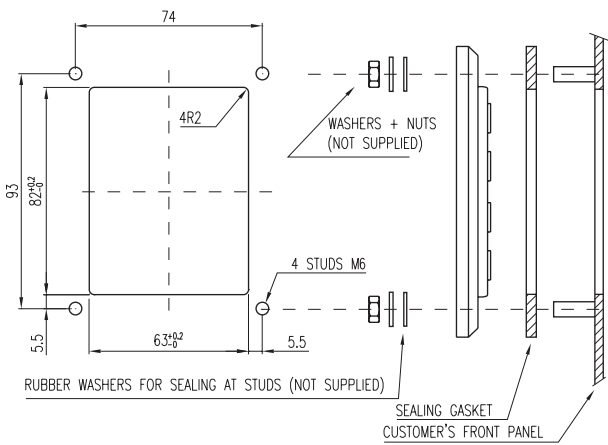
S.series Keypad

4x4 keypads



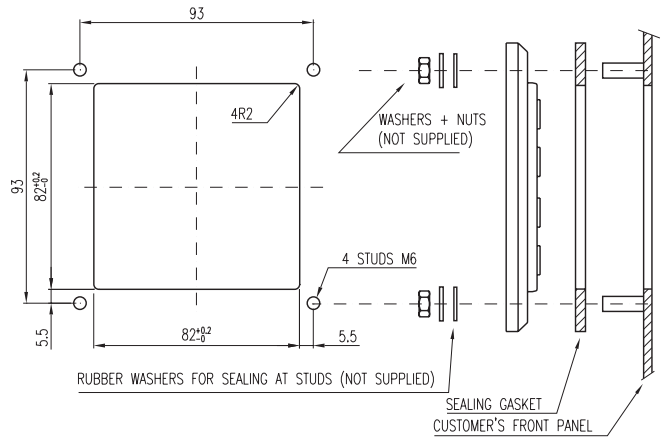
S.series Keypad Cut-outs

3x4 Keypads

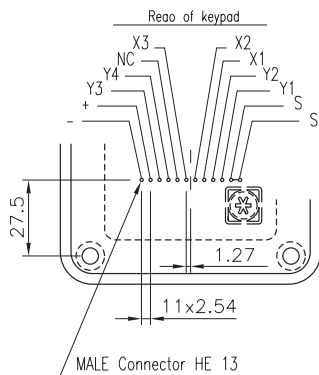
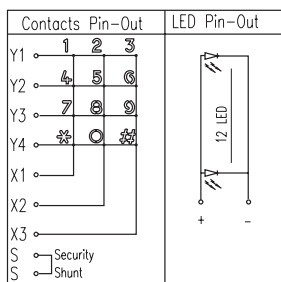


S.series Keypad Cut-outs

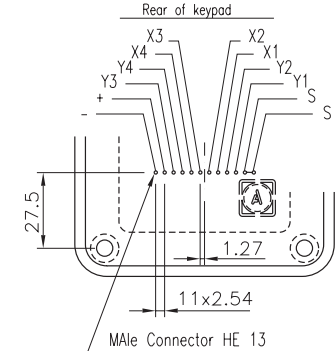
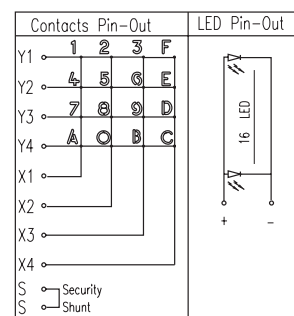
4x4 keypads



S.series 3x4 Illuminated Matrix

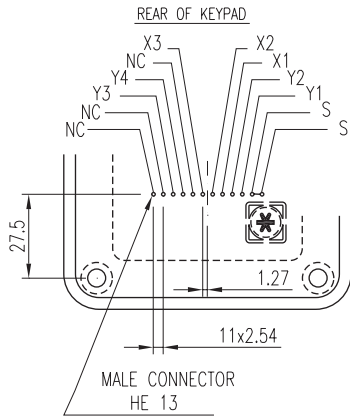


S.series 4x4 Illuminated Matrix



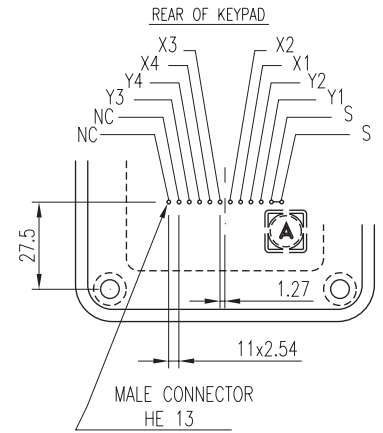
S.series 3x4 Non-Illuminated Matrix

CONTACTS PIN-OUT	
Y1	1 2 3
Y2	4 5 6
Y3	7 8 9
Y4	* 0 #
X1	
X2	
X3	
S	SECURITY SHUNT



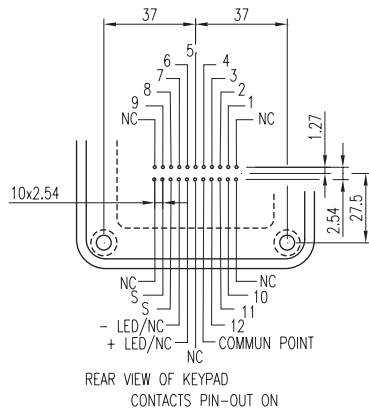
S.series 4x4 Non-Illuminated Matrix

CONTACTS PIN-OUT	
Y1	1 2 3 F
Y2	4 5 6 E
Y3	7 8 9 D
Y4	A 0 B C
X1	
X2	
X3	
S	SECURITY SHUNT



S.series 3x4 Illuminated and Non-Illuminated Common Point

KEY	CONTACTS	PIN - OUT
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
0	10	
#	11	
S	12	SECURITY SHUNT



S.series 4x4 Illuminated and Non-Illuminated Common Point

KEY	CONTACTS	PIN - OUT
1	1	
2	2	
3	3	
F	4	
4	5	
5	6	
6	7	
7	8	
8	9	
9	10	
10	11	
D	12	
A	13	
O	14	
B	15	
C	16	
S		SECURITY SHUNT

